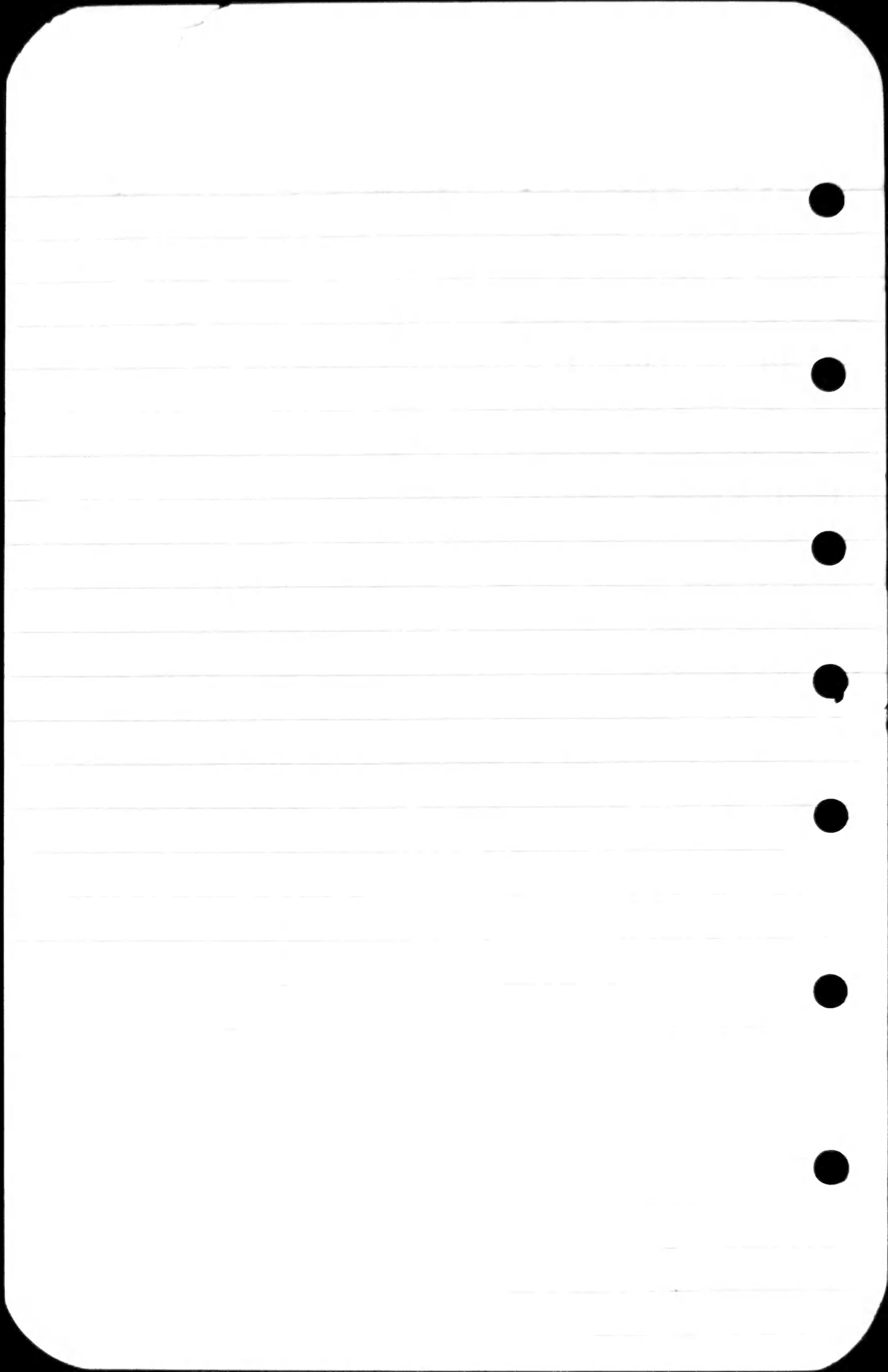


3-4-82 Is this 729 D II (2)? CMS

Mexico

1936

H.R.R.



June 30<sup>th</sup> between Bristol  
and Kingsport, <sup>Tenn.</sup> harvested  
wheat field near stream

1 *Micogryllus*

1 *Oecanthus*

July 3 between Little Rock  
& Benton, Ark. in wood

Cypress stream

*Micogryllus*

*Hemolius*

*Pterophila* heard

many many of short horns

heard also

many of

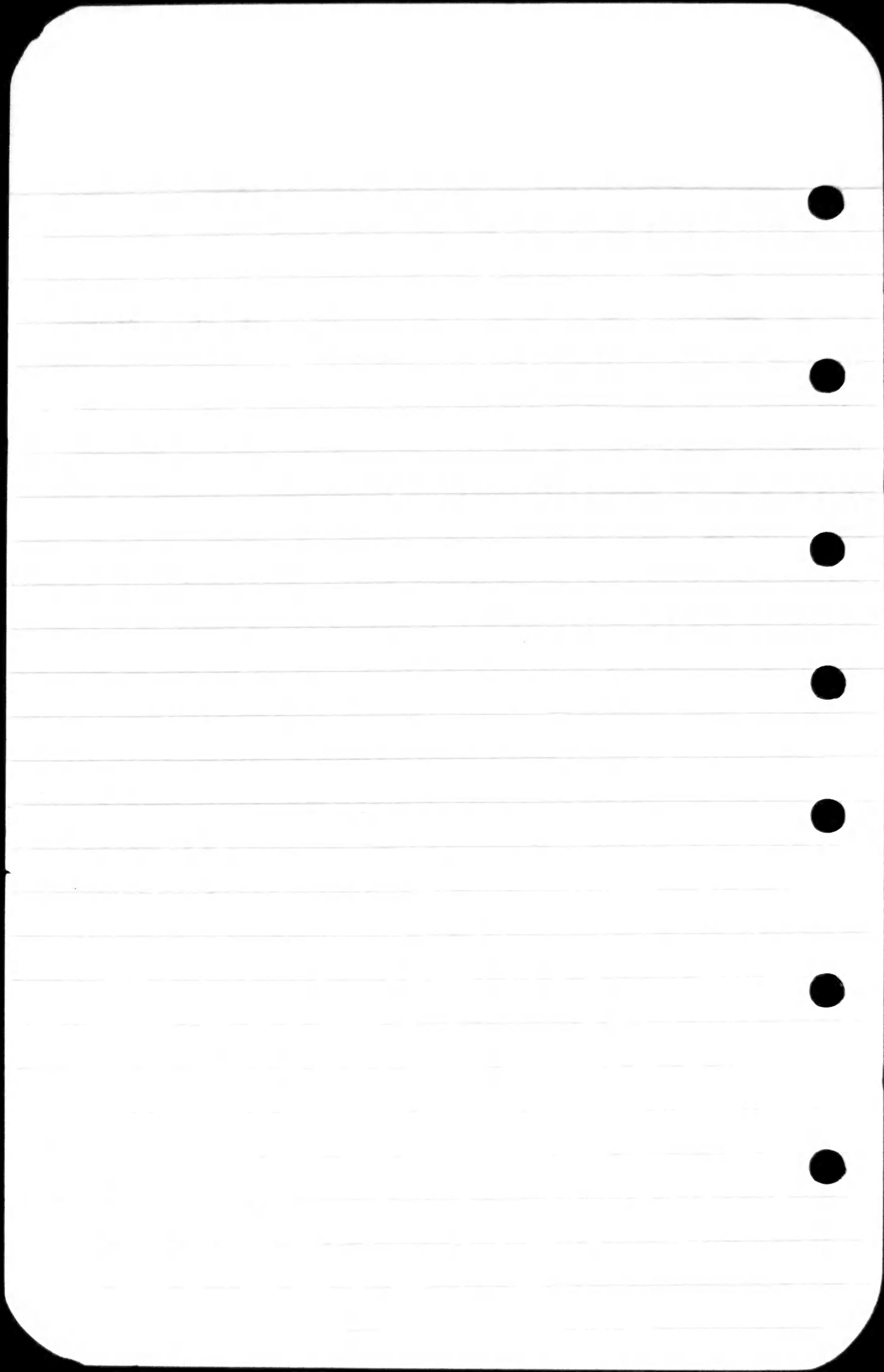
of *Sphaeragris*  
*Paracanthus*

July 3-4 Near Fulton, Ark

No. 1 *Pterophila* many singing  
climbed Oak to secure it.

Several other long horns singing  
in trees.

Hazel spotted *Centrophilus*?  
on roadway



July 5 Morning

Mc Horter Ranch 10 mi<sup>S</sup> west of Loxahatchie,  
Texas toward Maypearl

Near the brow of a hill - natural  
habitat - grass, weeds, some  
pear cactus, acacias & hawthorns

Dactyloctenium found here they  
say it depends on a small weed  
which they call Dactyloctenium weed.

Almost all hoppers obtained  
from beating in grass & weeds  
including the *Psyllids*

July 5 Afternoon

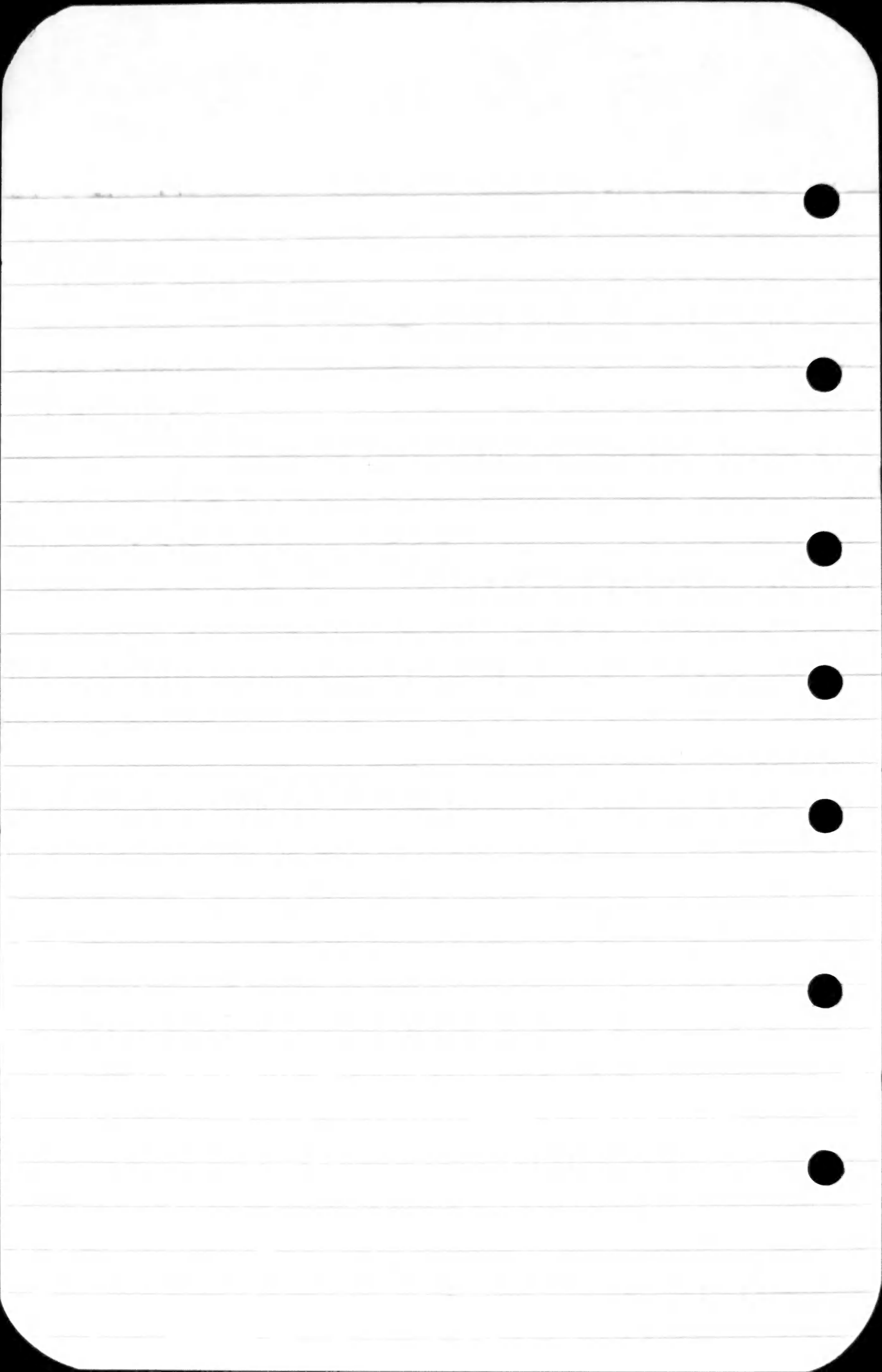
Sardis 5 mi west of Loxahatchie  
grass & weedy fields - *Desmodium*  
abundant - *Desmodium* & *Dichapetalum*  
*Chrysomelids* common.

*Hadrotettix* everywhere

*Trimerotropis* white & black

July 8<sup>th</sup>

37 miles North of Lufkin, Texas.  
Country much like first stop  
below border but higher vegetation  
and soil fine reddish sand.



July 7<sup>th</sup> Bandera, Bandera Co, Texas  
stopped by creek - large cedars  
ambrose, weedy cover

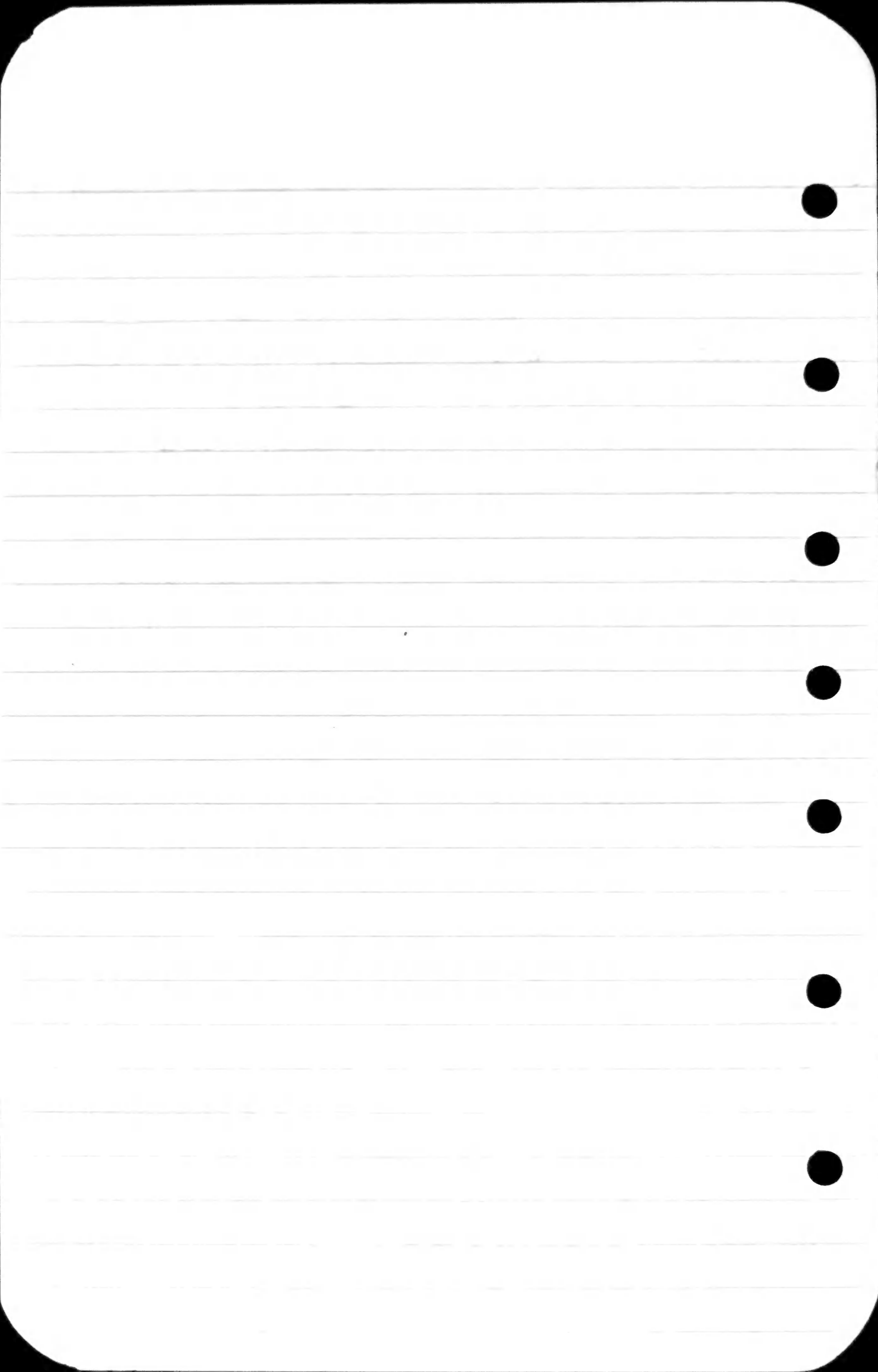
Did not attempt to make  
any systematic collection  
got several small crickets  
of interest.

The large Phasmodon same  
as found in the area at  
Bandera.

Small crickets were  
obtained from the area  
were the others.

July 8<sup>th</sup>

39 miles North of Laredo, Texas  
country much like first stop  
in Mexico below border, but higher  
vegetation and soil fine red  
sand





— Mexico —

(July 8<sup>th</sup>)

July 9<sup>th</sup>

About 12 miles south  
of border Nuevo Leon, Mex.  
Arrived here about six after being  
held up in the customs for four hours  
at Nuevo Laredo

Altitude less than 500 ft  
Country - scattered acacias and  
smaller thorny bushes  
some cactus four feet high of the  
branch like type.

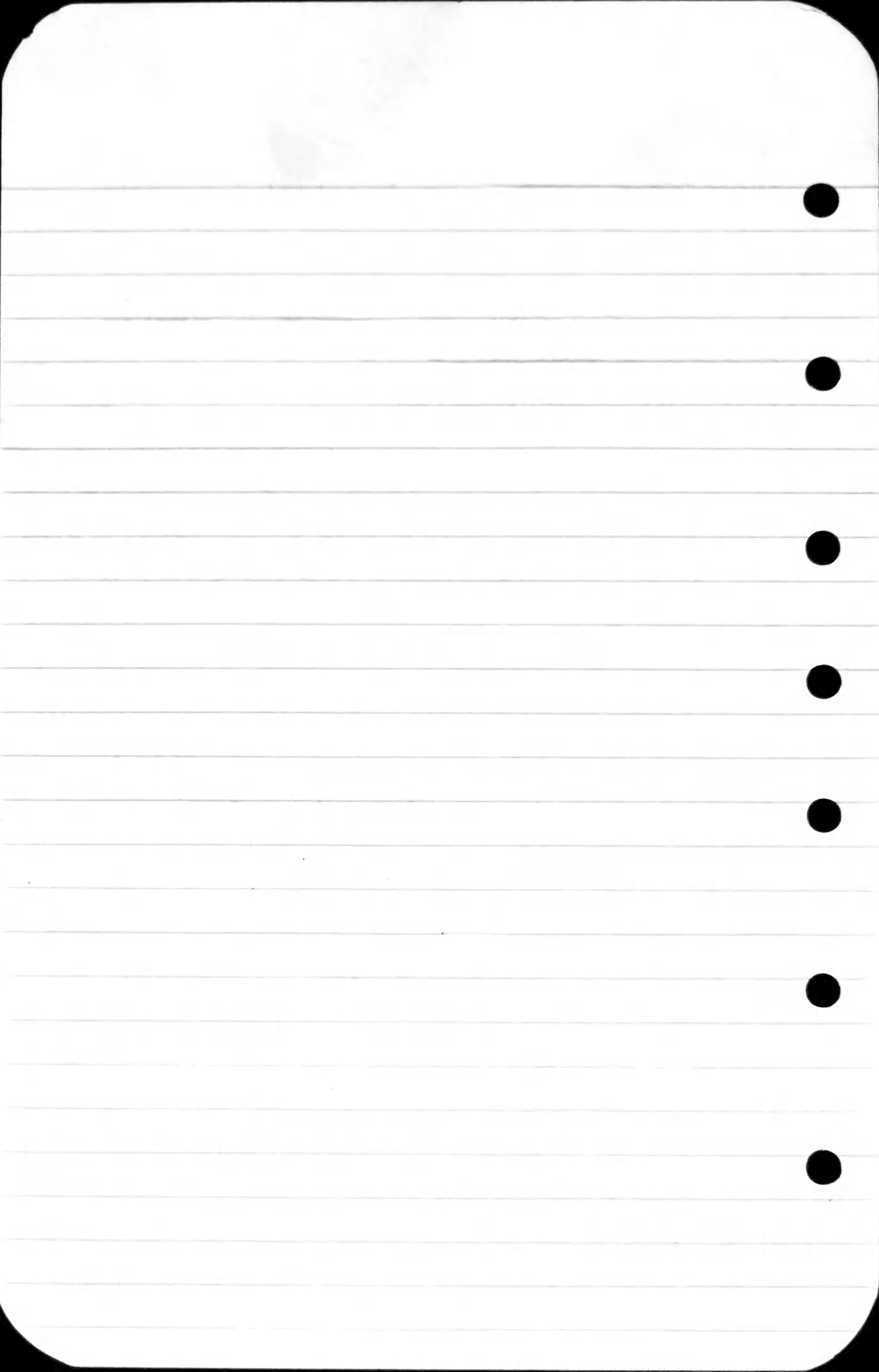
Obtained two species of long  
horns in the evening by flashlight  
in acacias also two Phasmids

The *Perixerus* was rather difficult  
to catch as it was only found  
in the thorny bushes & cactus

The wingless green *Melanophi*  
was also found in bushes &  
on the acacias

The <sup>*Dichoptera*</sup> ~~*Dictyocera*~~ were chiefly  
found in the cactus. The gaily  
one was taken on the lower  
trunk of the acacia at  
night.

The winged acridids were all  
taken on the ground except for



July 9 (cont.)

the Schistocercas which usually flew from bush to bush. The Tryxalines also took to the bush at times.

The little grey mantid was found on the ground and was quite agile. It running about

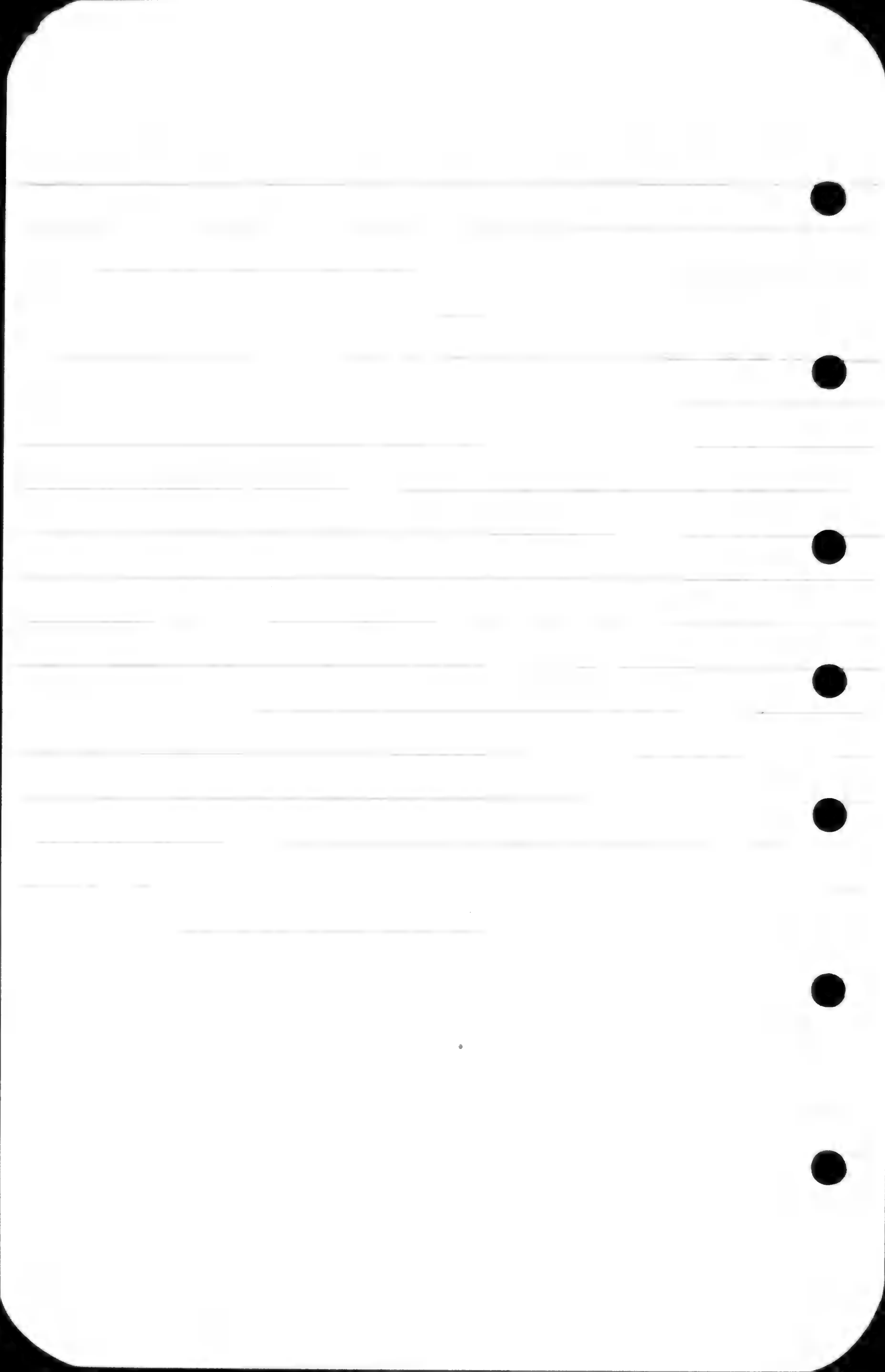
The ground was sparsely covered by a low grass completely dried out. The earth was a grey brown fine sandy type.

The small Cicada was taken in an acacia and was the only singer during the day. a more or less continuous chee, chee, chee, chee etc.

The long horns in the acacias are rather difficult to find during the day, but are easily spotted at night.

Used hoe under acacias and found a few Blattels and a very small cricket very hard to catch.

Later in the afternoon went down into dry wash - found Trimerotropis on bare ground. Beat in weeds and got Ablycorypha, Conocephalus

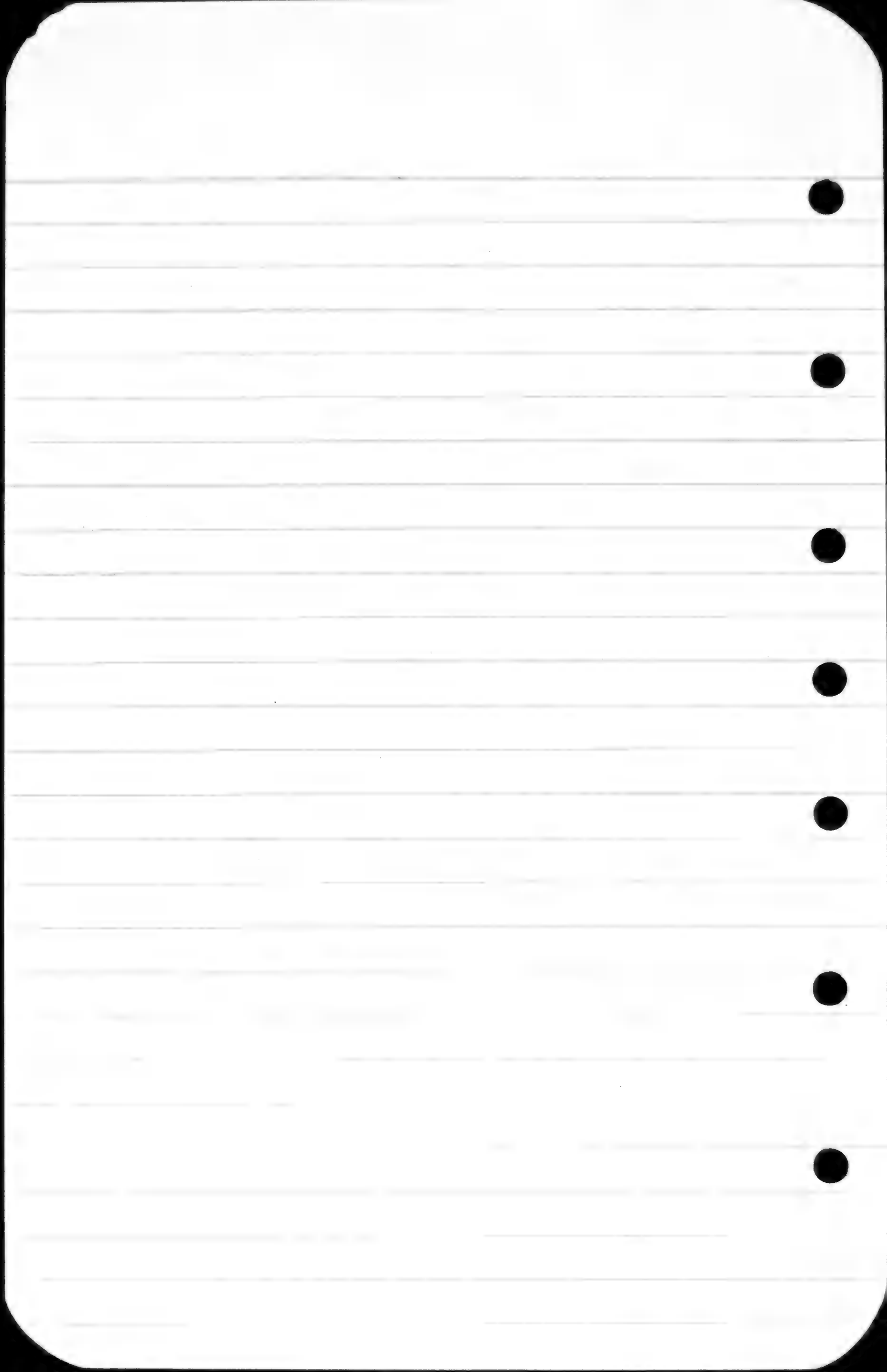


July 9<sup>th</sup> cont

winged Melanophus, Dichromophus,  
black winged small scabula or  
Memoria? —

July 10<sup>th</sup> went off in another direction  
where Ed had found some Scaphi-  
pus scaphi pus and also  
a short scaphi  
and a scaphi pus

La Florida about 4 miles below  
the river scaphi pus scaphi pus  
area much scaphi pus scaphi pus  
mostly thorny scrub also scaphi pus  
on the Rio Grande scaphi pus  
between beyond scaphi pus  
most scaphi pus scaphi pus  
like scaphi pus



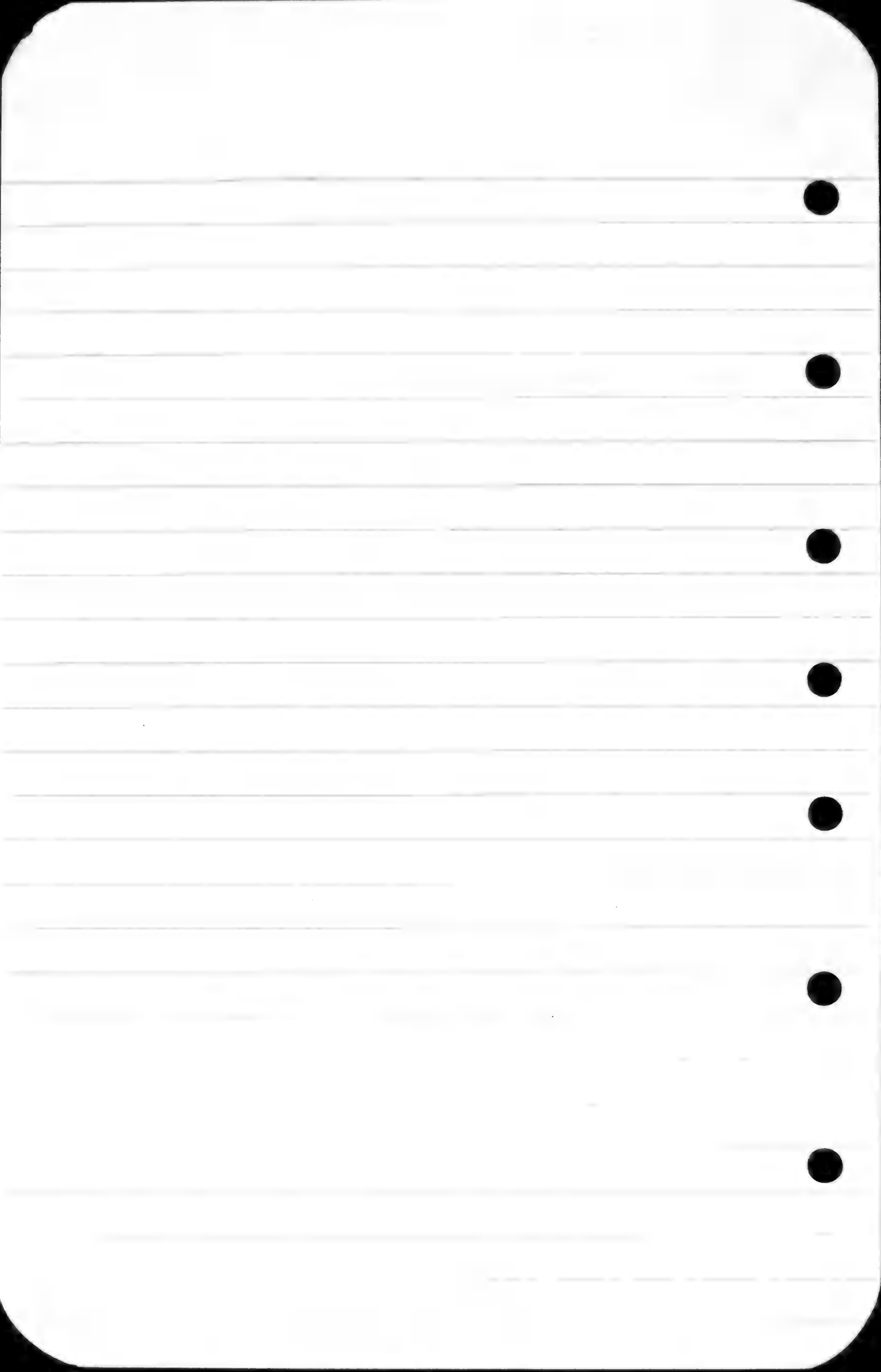
Mamunliques Pass - July 10-12

Just off road to ranch which takes off from  
main road by second customs station  
which is just South of Mamunliques Pass  
probably at an elevation of about  
1800 ft. The country is surrounded by  
hills - Vegetation semi arid - high  
tree yuccas and much thorny scrub  
some pear cactus and a few other varieties  
but not abundant - grass fairly sparse  
and some weeds - Country evidently  
gets considerable more rain than  
to the North & much cooler

Most of the Hoppers appear to be  
adult and very good collecting.

Schistocerca are abundant and  
appear to be the same as in Texas  
Secured one grey female? - the one  
seen. There are a few small beetles  
about

One is impressed by the great number  
of short winged Hoppers about  
the Dactyloctenium here - one was  
found in one place near by where  
the vegetation is thin short and  
a good amount of small aquatic  
plants which the Hoppers use for  
protection. The Dactyloctenium seem  
most common and the Hoppers





# Mamulique Pass (Cont'n)

and hence difficult to catch.

Caught one feeding at trap and  
out up in a bush.

Set out traps (mostly for ants) but  
not very successful in immature  
weevils & immature Chalcids. Caught  
several tiny brown weevils, long  
swaying in circles but I think  
they are immature.

Flies are fairly common. Out  
most of the weevils appear to be immature  
except for the little green fly that  
occurs on the ground.

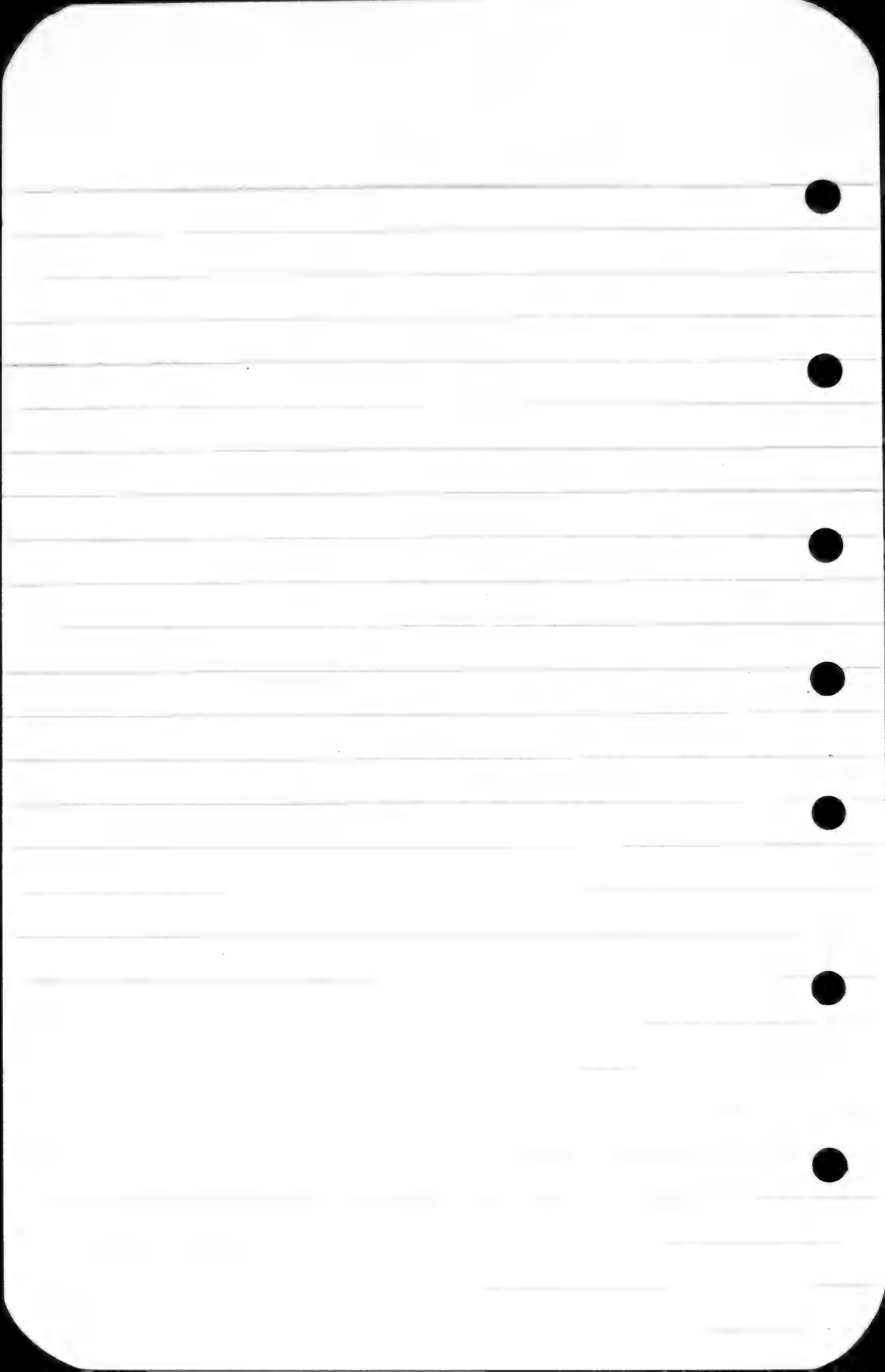
Ed went to the traps, but  
had apparently been used for a week  
of a lot and not since. I found the traps  
(changed) in a very little bit of the trap.

Light collecting in the afternoon -  
set 22 Hesperophylax.

as we were to be in the  
land continuous survey. It was  
easy to find the traps.

The short winged Melonite  
shook great and I collected  
and found a few more Chalcids.

I found a few more Hesperophylax  
in the traps. I found a few more Hesperophylax



Hermitique - pas de

tree seen by lake & with lake  
with not beneath

Went to Hermitique on July 13 - much  
rain night before - stormy weather  
Got supplies in Hermitique & went  
in woods 5-6 miles south of 30 miles

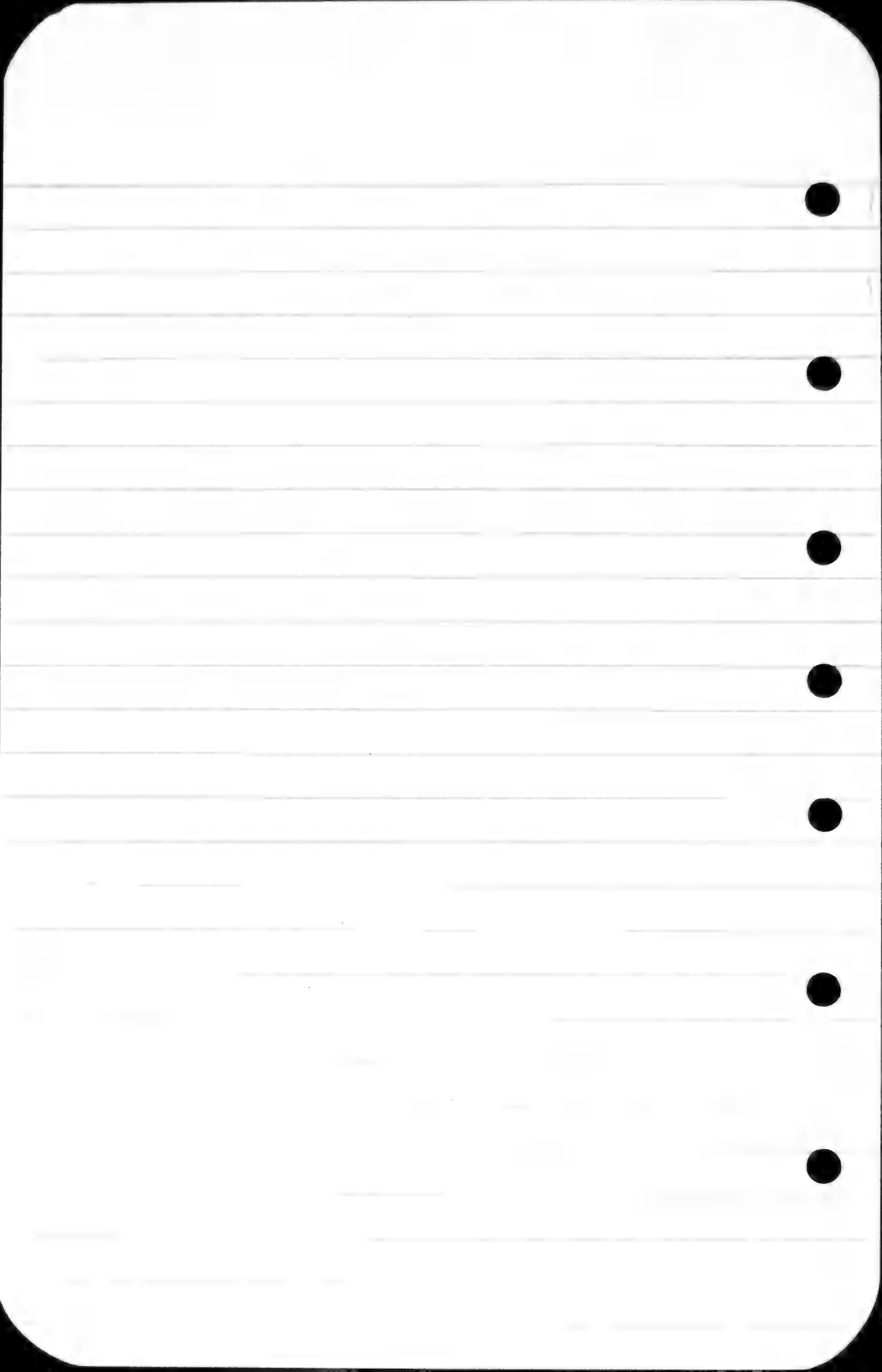
Hermitique  
"Mine" on July 13 -  
Weather continues to show stormy  
but much rain in the night  
Went out in night for about 2 hours  
then coming back looking for  
mostly supplies & with much  
we saw a lot of number of things  
from many small things & eggs  
be some of the things in the

Went out on July 14 - much  
rain & fog - very much  
Went out on July 15 - much  
rain & fog - very much  
Went out on July 16 - much  
rain & fog - very much  
Went out on July 17 - much  
rain & fog - very much  
Went out on July 18 - much  
rain & fog - very much  
Went out on July 19 - much  
rain & fog - very much  
Went out on July 20 - much  
rain & fog - very much  
Went out on July 21 - much  
rain & fog - very much  
Went out on July 22 - much  
rain & fog - very much  
Went out on July 23 - much  
rain & fog - very much  
Went out on July 24 - much  
rain & fog - very much  
Went out on July 25 - much  
rain & fog - very much  
Went out on July 26 - much  
rain & fog - very much  
Went out on July 27 - much  
rain & fog - very much  
Went out on July 28 - much  
rain & fog - very much  
Went out on July 29 - much  
rain & fog - very much  
Went out on July 30 - much  
rain & fog - very much  
Went out on July 31 - much  
rain & fog - very much

970

8-1





trailer and went on in the afternoon  
about twelve miles to a small  
river which was in flood & could  
go no further as bridge was  
under construction & road too  
deep.

went collecting up along river  
for about two hours with Ed.

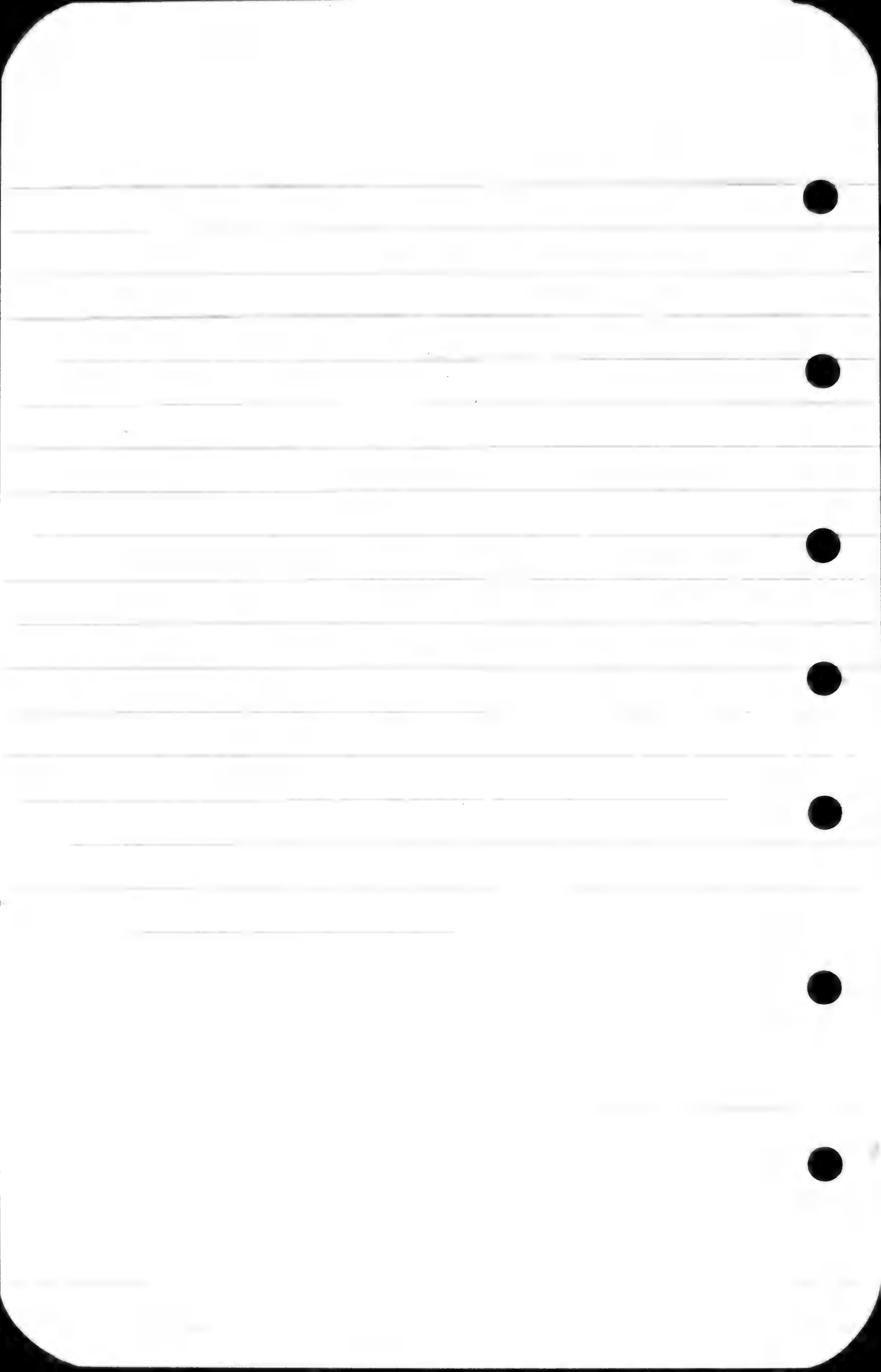
Hoppers very scarce

Took a small population of  
hoppers in our traps. They were  
very fast and difficult to catch  
worked a long time. It was  
less than a dozen specimens, also  
got a few *Perissurus* like ones.

Got a few other odd & end ones.  
The same day in a hoppers

country many *Sarid* and *Perissurus*  
low. This country is not  
typical of the Mexican plateau  
all this region and probably  
differs from all the other  
Mexico.

July 16 - collected around camp  
before moving in small work

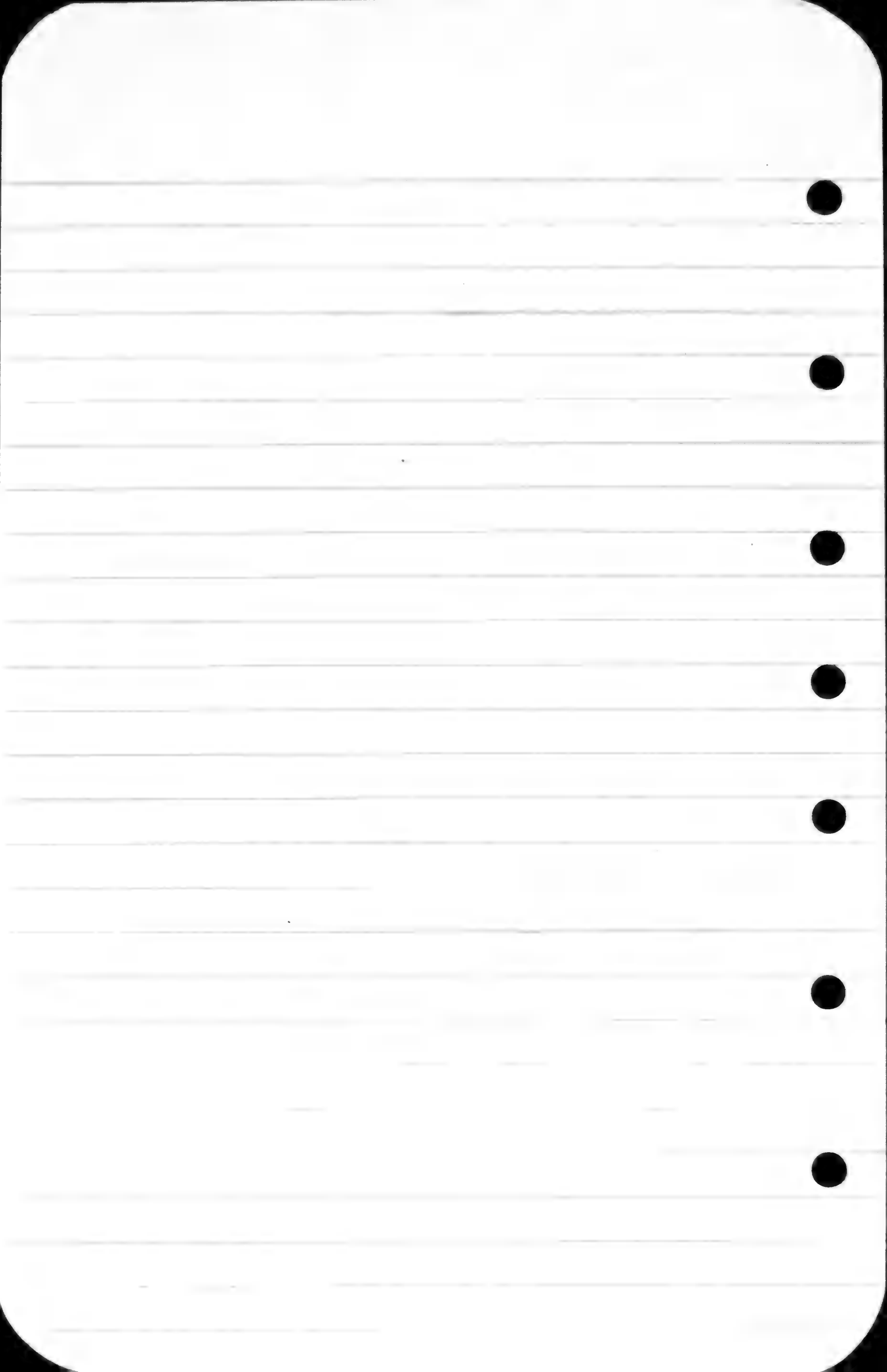




where there was some grass  
woods. Got a new kind of *Perisoreus*  
like trapper out since it is adult.  
- other got a young *Perisoreus* - 1 to  
got a *Perisoreus* and *Perisoreus*  
*Melanophus* out of grass - also  
two *Perisoreus* down in the hole. There  
were a great number of *Perisoreus*  
in the hole. *Perisoreus* about  
This locality is about 20 miles  
out of the hole at an elevation  
of about 7000 ft + hole. *Perisoreus*  
with some *Perisoreus* + *Perisoreus*  
There were also *Perisoreus*  
in the hole. *Perisoreus* + *Perisoreus*  
common in the previous  
locality by the river.

Returned to Saltillo and  
of *Perisoreus* + *Perisoreus*  
in the hole.

St. Antonio 10 miles  
at Monterrey at about  
elevation of 7000 ft. *Perisoreus*  
vegetation was particularly  
dense. *Perisoreus* + *Perisoreus*  
+ *Perisoreus* most abundant there.  
no great variety of species

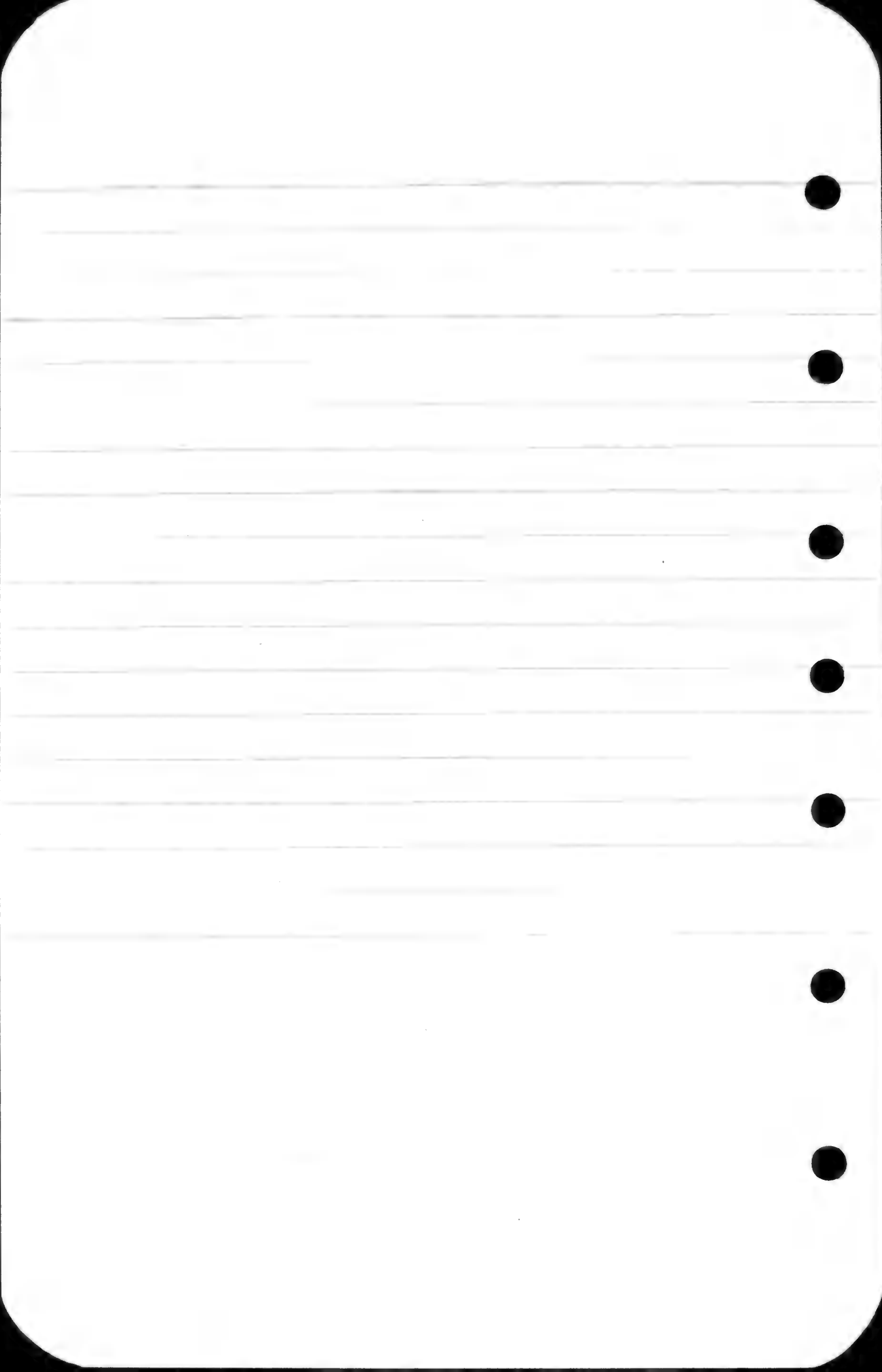


15 miles west of Monterrey (cont.)  
July 16

Two species of *Perixerus* like  
hoppers abundant - *Hesperotettix*  
*viridis*? common - caught one  
of *Hesperotettix* similar to ones  
caught on river in same type  
of actus. Small acrodid with  
pink on dorsal part of abdomen  
common. - Killed two  
*Dichopelala*'s out of tree yucca,  
but did not catch them - looked  
similar to ones secured north of  
Monterrey

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Stopped for lunch at Monterrey and  
then took the road South - west about  
fifty miles - about six or eight  
miles south is the San Juan  
Valley. The country is quite  
fertile and has many citrus orchards.  
Country is immediately begins  
to level on a wide plain as  
soon as the road gets away from  
the mountains which rise up  
very steep. Made a very pleasant  
camp on part of old road just  
off the new road. Location  
rather high compared to most

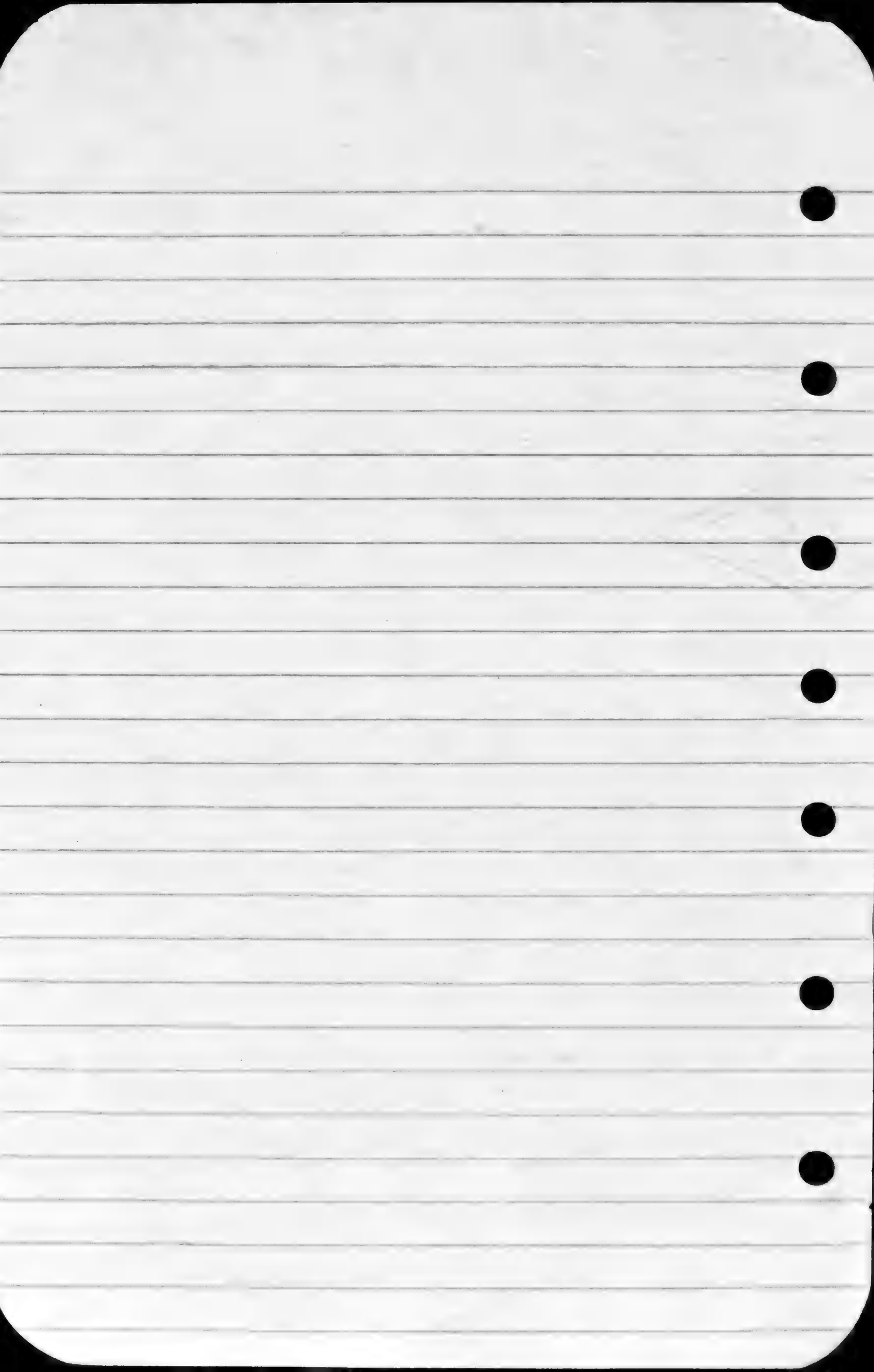


## Montemorelos (Cont.)

of the surrounding country.

July 17<sup>th</sup> - <sup>kilom. 902</sup> collected around camp in the morning - bushes fairly thick about twelve feet high - secured several species of short winged Melomyia, Syrphula, Scyllinops and one Scyllina like grey hopper with fairly long wings? Chased out a number of Dichopetala out of Yuccas. In general the dryer part of the country here does not seem very productive.

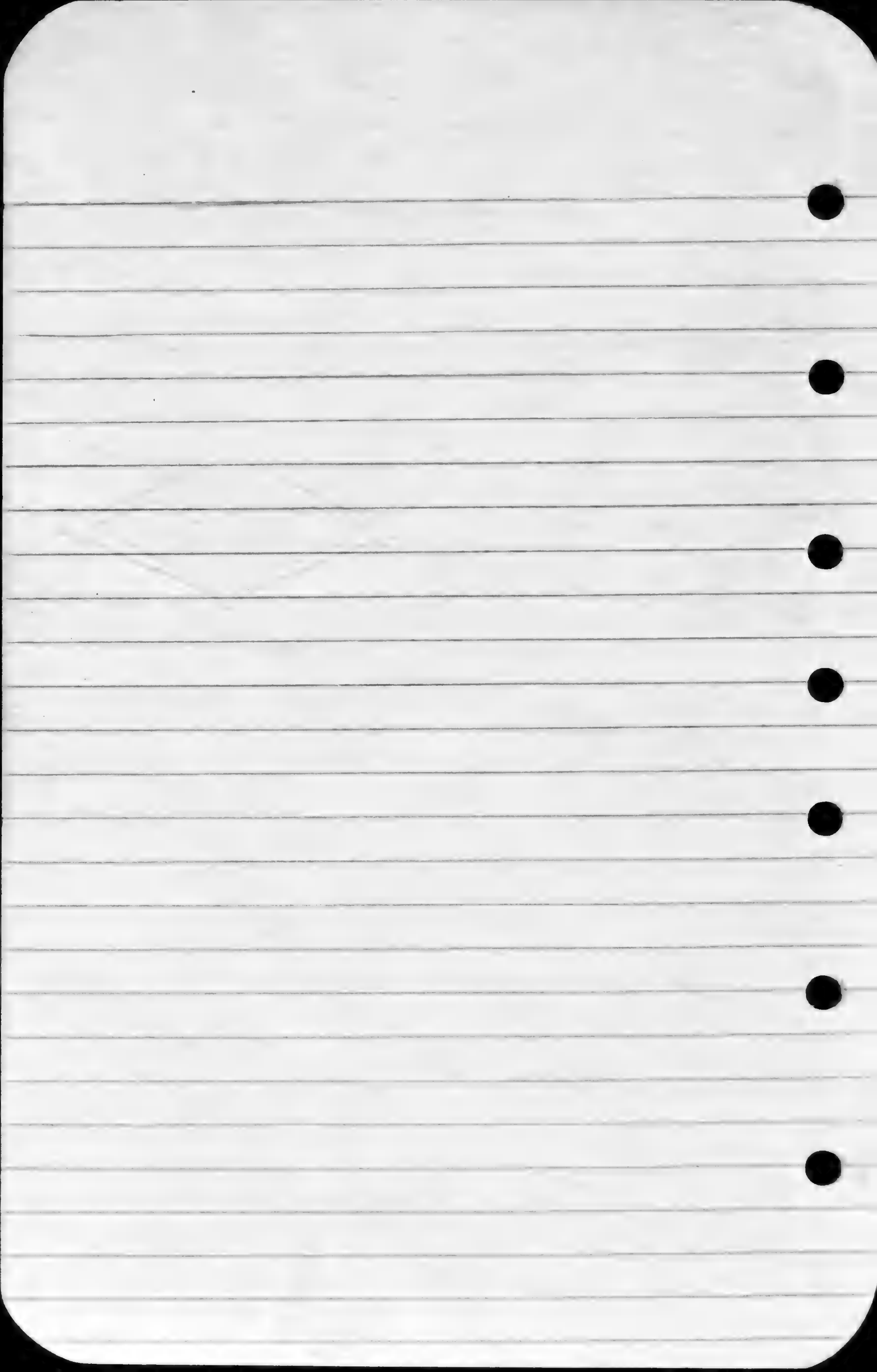
Afternoon went with Ed to river several miles North of Montemorelos. Much vegetation along the river and much of the banks frequently washed by flood waters - caught a number of grouse locusts by sweeping low over ground also got a very tiny cricket adult and 1 ♀ Hemobius - also got an immat. & an adult Machrocera Orphulella, a new short winged



Melanopli? - Ed found a place where some Chromacris both adults & immatures were all over the place - also found a Taeniofoda, Ed got a member of a Aidenomon and also a bluish small ablyconha like long horn. Are these Chromacris colorata. I do not remember the very bluish coloration. They seem to be feeding on a large annual weed with thick fuzzy leaves - somewhat similar in character to the plant on which the Chromacris fed on in Acapulco.

July 18 - Everyone returned to the same river about six miles North of Montemorelos called Arroyo Carrapatas - secured a lot of more material. - The short winged fat Melanoploid with light dorsal portion to the pronotum seemed most common on the ground under tall bushes - the ground cover was mostly dead leaves







Dr. E H Taylor

Dept. of Zoology

Univ. of Kansas

Betw. 10 & 12000 ft on Cofre de Perote  
- crickets under pine logs

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Jalapa, Aug 27

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Totalco or San A<sup>to</sup> de Limon  
V.C. ~~as Puebla~~ about 8,000 ft

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Near Las Vigas<sup>V.C.</sup> in Lava about 7500 ft

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5 mi W. Pasco de Orejas<sup>V.C.</sup>

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Near Jalapa V.C. - high Savanna

U.Fa.No. /  
13999

U.Fa.No. 4  
14001

U.Fa.No. 3  
14002

U.Fa.No. 5  
14003

U.Fa.No. 4  
14004

U.Fa.No. 7  
14005

U.Fa.No. 11  
14006

U.Fa.No. 11  
[REDACTED]

U.Fa.No. 12  
[REDACTED]

U.Fa.No. 12  
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U.Fa.No. 12  
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U.Fa.No. 12  
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U.Fa.No. 12  
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U.Fa.No. 12  
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U.Fa.No. 16  
[REDACTED]

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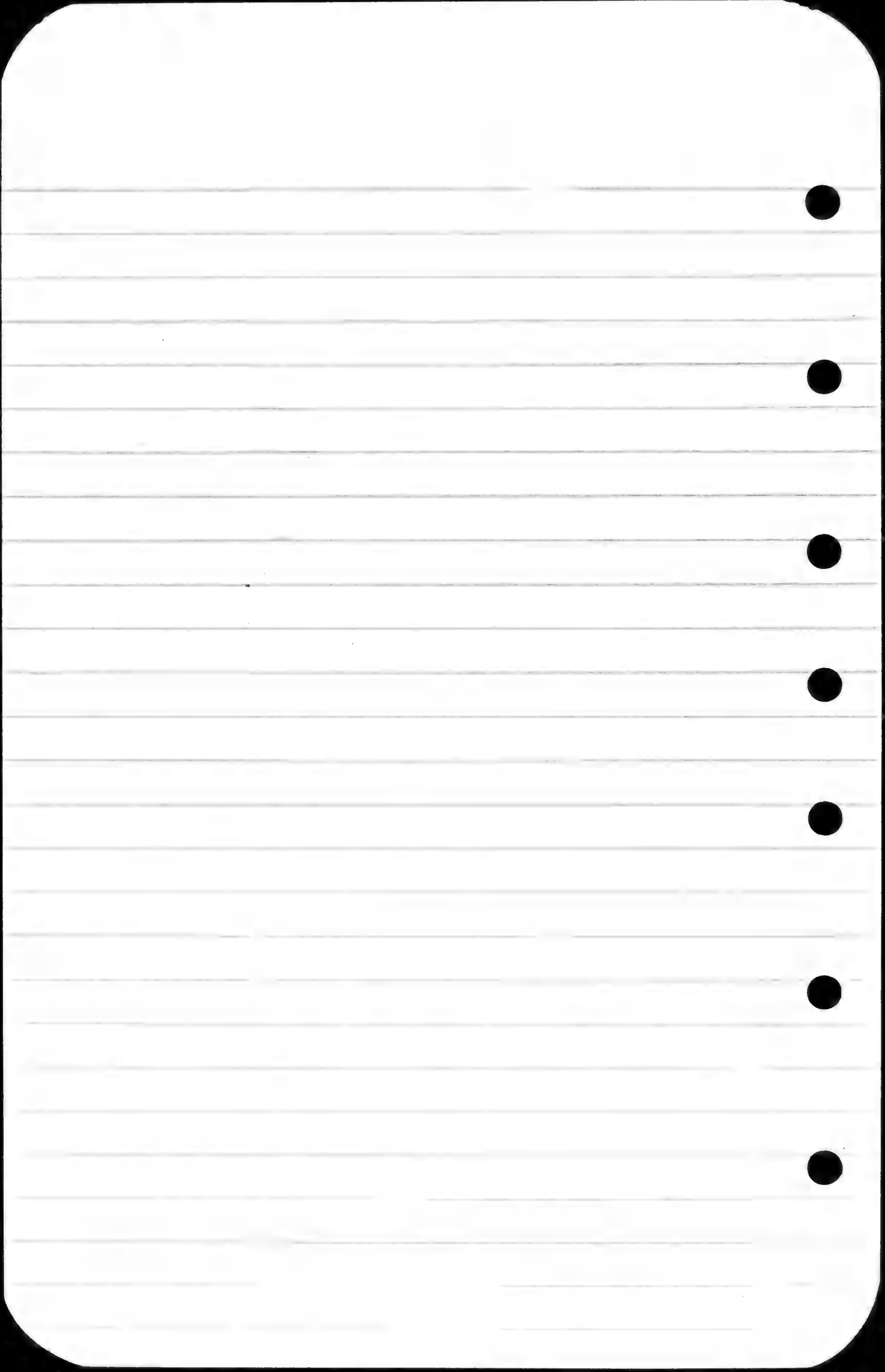
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July 18 Carrapates Arroyo

and a little short grass. Got large Mantid sitting on tall weed.  
Got small Diablos sweeping along edge of river.

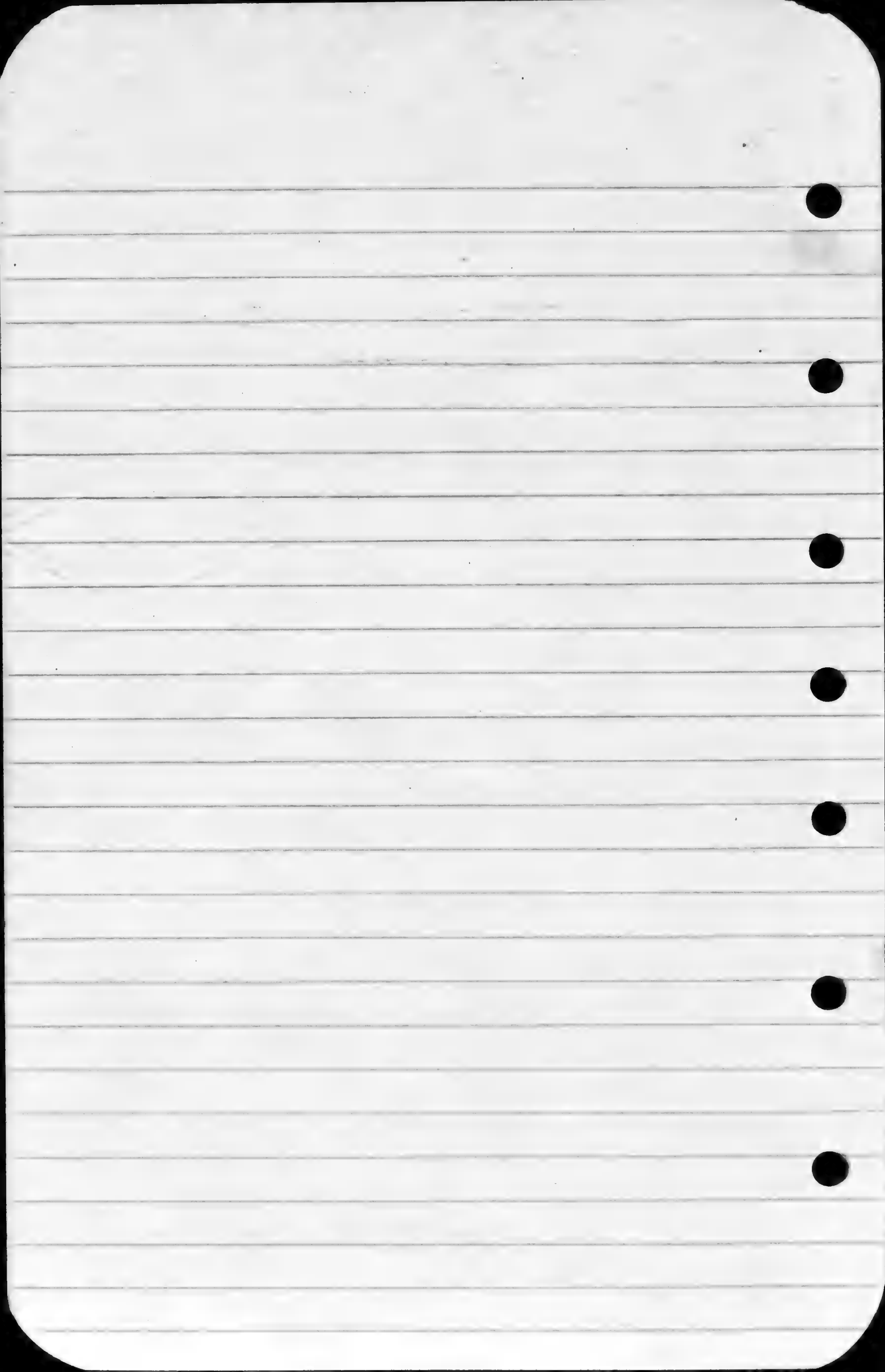
July 19 went about 35 miles south of collecting area which was about 10 miles South of Sinares N.L. Elevation, probably less than a thousand feet. Not as good collecting as last locality. stopped several places around Sinares. The River there not very good because probably too much cultivation. Took female small Schistocerca in thicket near stream also swept up some small crickets.

Green Schistocercas common on bushes almost anywhere, but hard to catch. The country seemed more humid and more agriculture in the region. Also probably slightly lower - Could see small range of mountains off to the East of Sinares.



July 20 broke camp from around  
Montemorelos motored to Ciudad  
Victoria - made camp about five  
miles South near very pleasant  
river Arroyo El Capitan - <sup>kilm. 688 +</sup> about  
sixty five miles North of  
Victoria. kilm. 813 there  
is an interesting bit of country  
rather a high ridge and  
quite well wooded - Unfortunately  
did not stop & should do so  
on the way back.

July 21 C. Victoria elev. 1000 ft.  
Went about six miles North of  
Victoria to a swampy bit of  
country and found quite a  
few new things - *Trixalis*,  
large green hopper with white stripe  
on sides of pronotum. Got many  
grouse locusts, *Hemolius* and  
tiny brown cricket by sweeping in  
short boggy grass. Also many  
*Conocephalus*. Found short trail  
through bit of heavy wood got a  
*Oecanthus*? and cricket with  
wide wings - Also the





Victoria July 21<sup>st</sup> Cont.

fat with grey dorsum. - Chromocoris  
Common in a few spots.

Got small grey ♀ Schistocerca.  
Ed caught a couple of male  
Hesperotettix like Hoppers.

Are these small short winged  
hoppers Phaedrotettix - There  
are apparently three species  
about & most easily  
distinguished by the color  
of the ends of their femora

July 22 - Went up road to  
San Luis Potosi - went about  
12 or 15 miles up to 4000 ft. - collected  
between 3-4000 ft. - road was  
very rough and could only average  
about 6-10 miles an hour with  
four or five fords, some well over  
running board. Did not  
have time to go further, but  
road seemed to have reached  
the top of first main rise  
and country looked pretty  
much the same on ahead.  
Did most of our collecting at  
4000 ft. rather low vales about

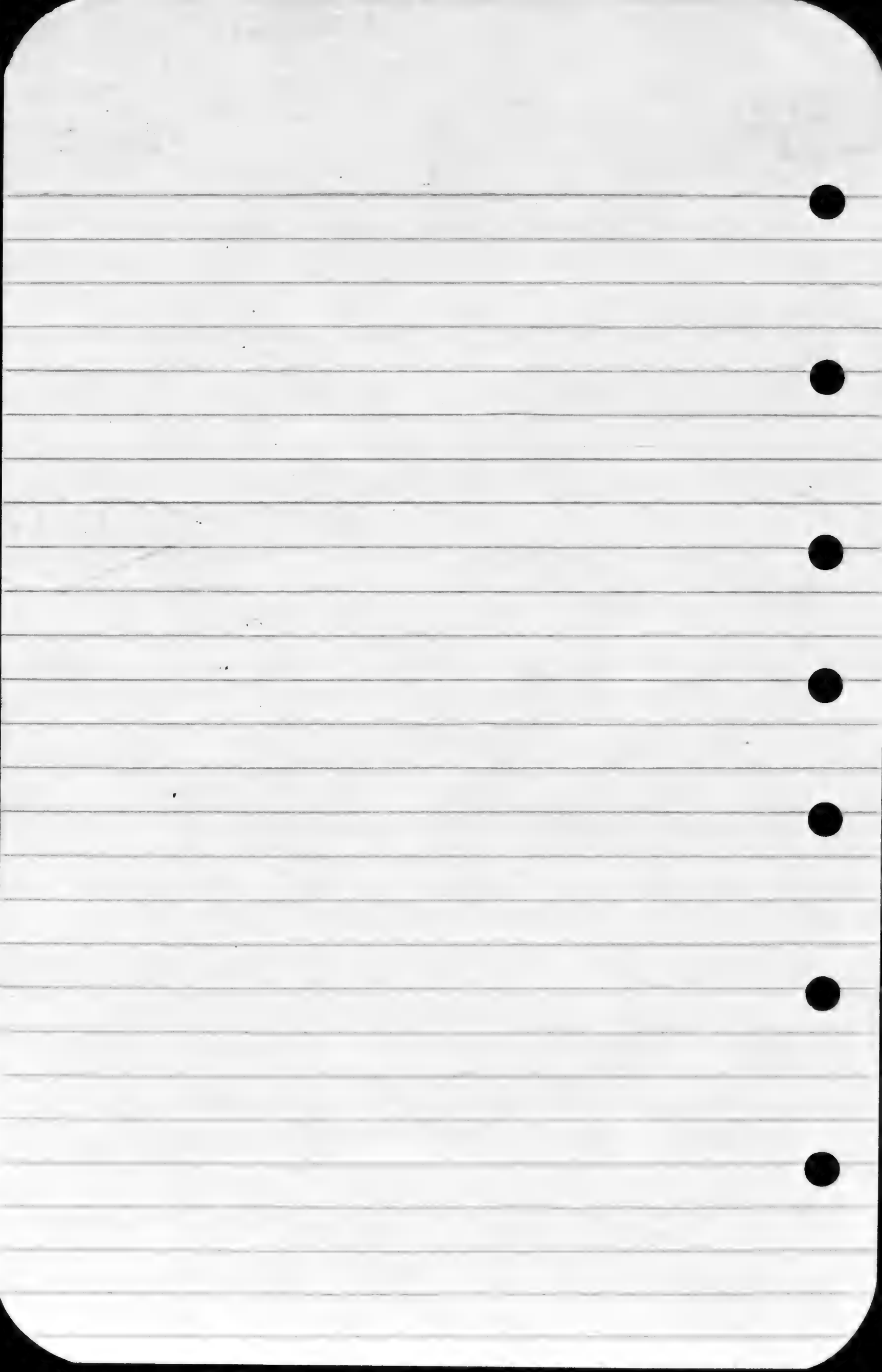


15 or 20 ft high some grass and bushes and much dead leaves. Got the short winged *Phaedrotettix* & *Melanoplus* on the ground. also the short winged *Truxalina*.

Got some *Memobius* and another largish cricket which I thought had largish wings but had none when examined later - were they knocked off. Got two kinds of *Pyrrhonomorphus*? - *Schistocerca obscura*? *Dichromorpha*, *Oryzias* short winged long horns, *Pachytelus* which were in the pear cactus.

Villa Suarez July 23

Left Camp near Victoria and Motored to Villa Suarez went over quite a rise Mesa of Llera then down to quite a low elevation then got into quite a tropical valley fairly well wooded then country flattened out for some thirty five miles to Suarez - some bits of the country had quite



a lot of Cabbage palms - did not stop at the above places but think we have covered much of the same region here

July 23 - Afternoon went about 12 miles North intermittent showers - best collecting spot was between El Limon & Suarez near Cabbage palm stand - natural grass & weeds poorly drained land - short winged (pointed) *Melanophus* common - Ed got a Boopedon. Phil got the small *Melanotis* Cost an immature *Leptocoma*. Went to river along which there was quite a thick high tropical forest - poor collecting as it was so wet - got *Osmia* & *Viloria*

July 24 - Rained all morning as well as previous night. Went to ridge about fifteen miles along the road South. Very interesting and rich



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27

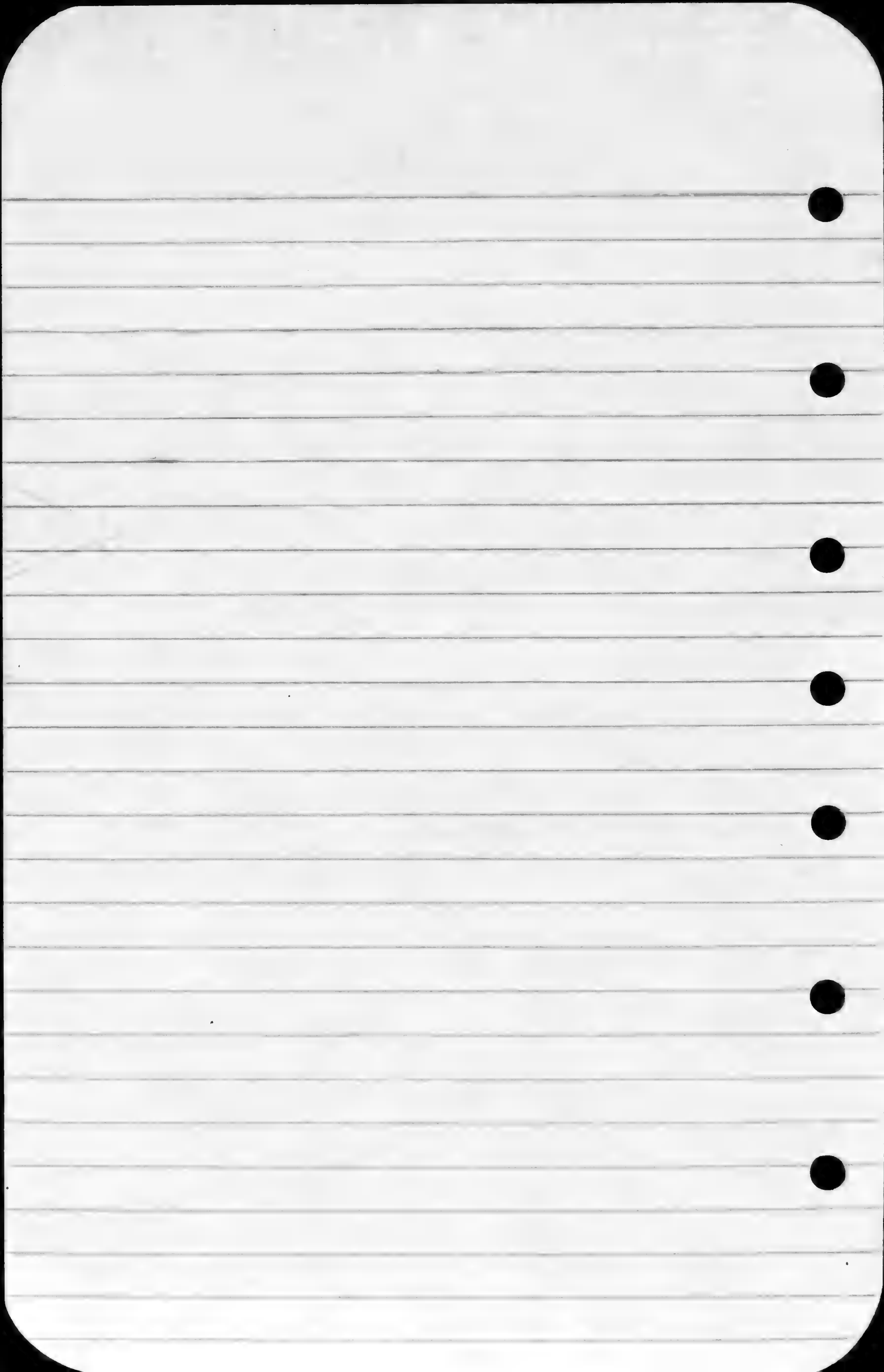
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## Villa Guarez (cont')

tropical growth. Got a lot of interesting stuff - also ran into an army of foraging ants they were not large but great numbers - stayed around them for a about an hour until they began to return to their home. Got two kinds of interesting crickets and *Dichopetalas* & immat cockroaches. would like to find a similar situation again. - Caught both light green brown second like crickets (2 ♀) sitting on leaves - Hazel caught the ~~was~~ little walking stick. A new kind of *Anisara*? Hazel got one of the large ♀ short winged long bodied. Many *Phaedrotettix* - Usually on bushes - have seen nothing in vine tangles!

- see note at end of July 25 -

July 25 - Hazel not feeling well (Chickadee mole?) stayed home - went about thirty five miles South - Country.



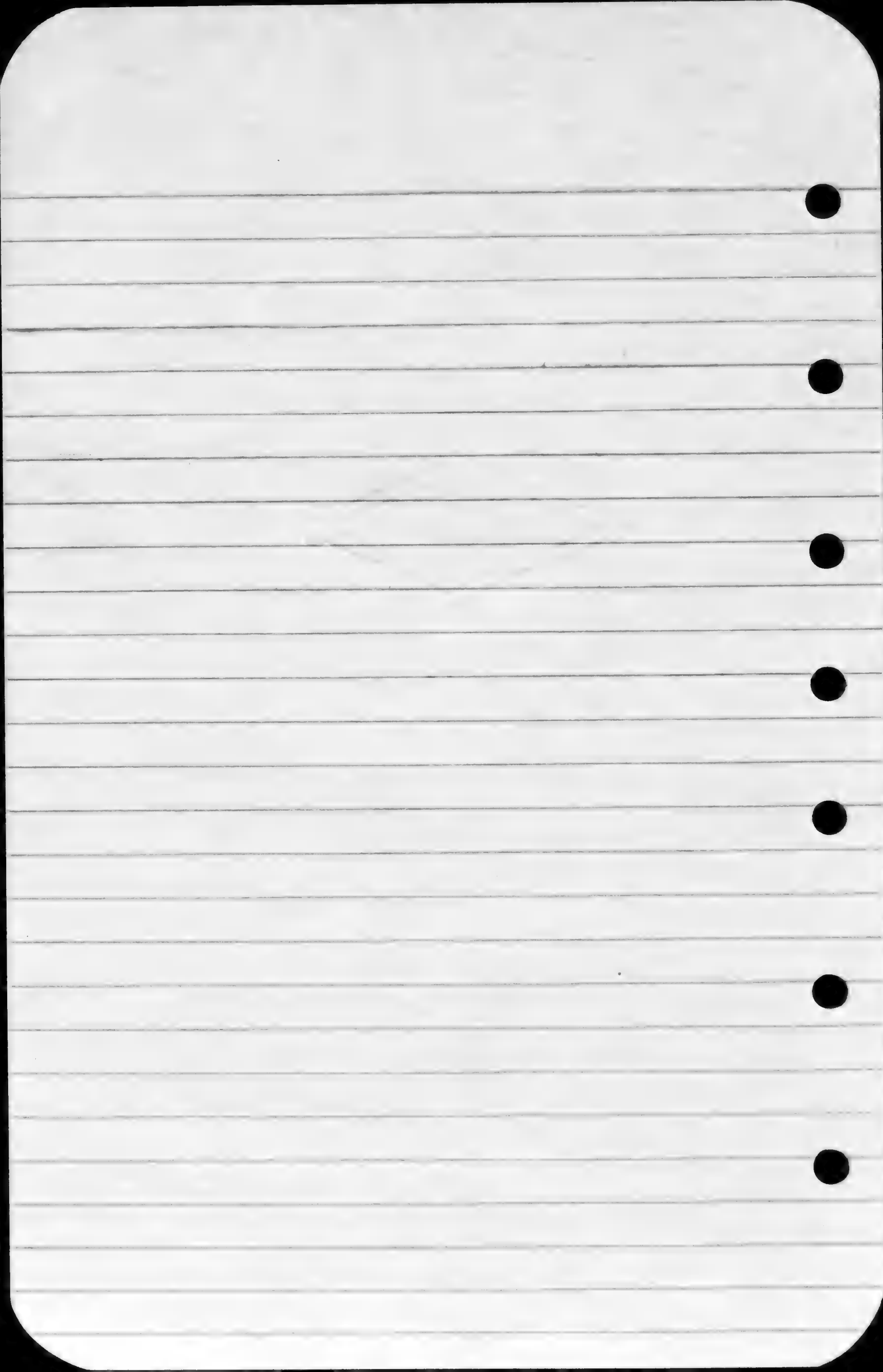


(Villa Suarez cont 2) Tamaulipas.  
July 25

rolling beyond ridge and a little higher than Villa Suarez - Collected here & there on the return - some Cabbage palms - found a rather dry hillside and got a few representatives from further north. *Scrubula* common little winged *Oedipodid* with pink dorsal abdomen - big headed striped *Oedipodid* - *Aulocorypha* -

Stopped for lunch on the way up ridge - fairly well wooded. Got three new *Tachipoda* it's also got rather scarce variety of *Phaedrotettix* (red brown head on side of pronotum & green legs) fairly common but shyer than the others - large *Melanoplus* common along roadside on ridge.

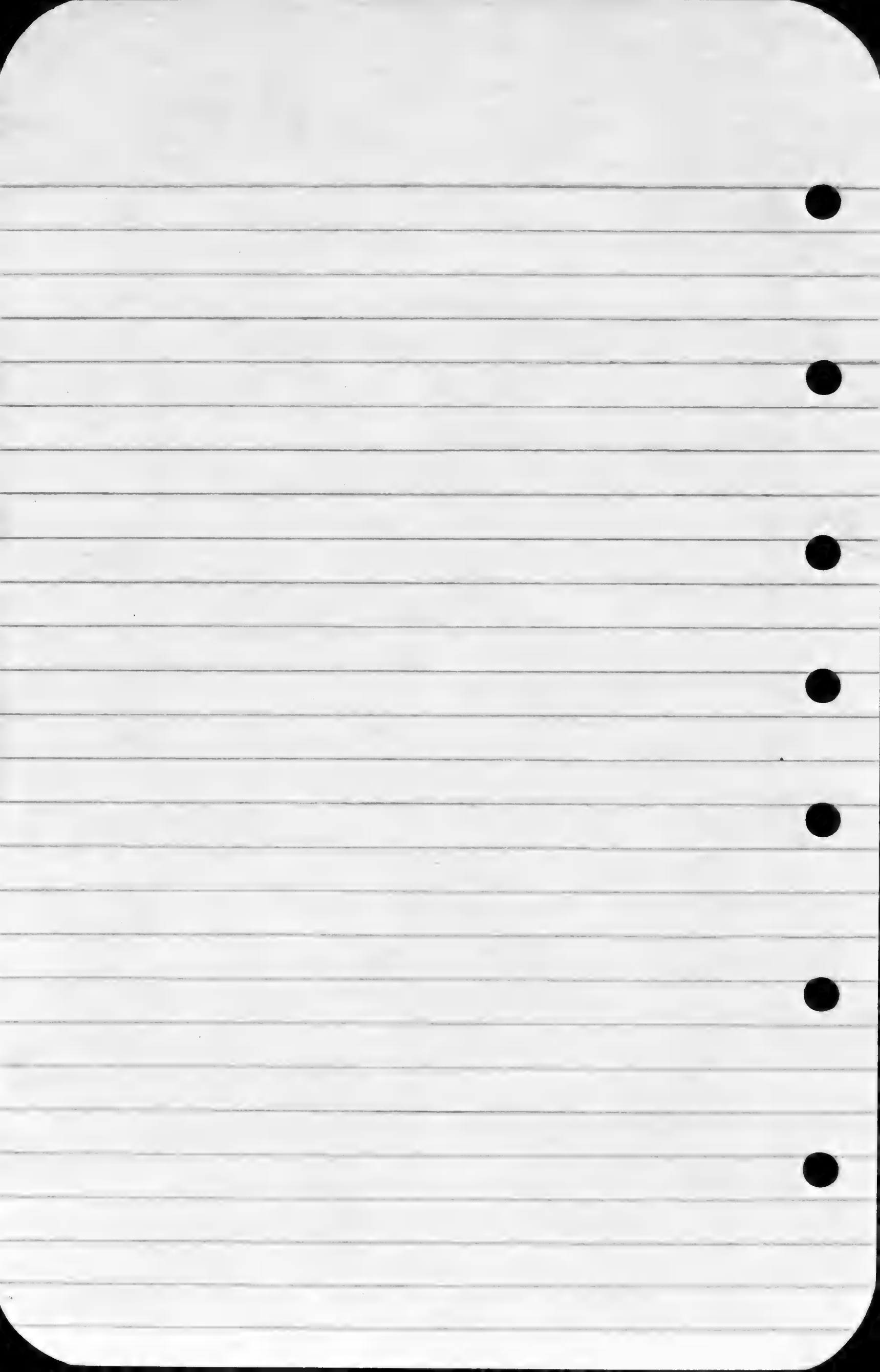
(July 24 cont.) - got *Cyllotalla* in evening in square - heard a couple of males singing - caught long wing *G. assimilis* in room & short winged *G. domestica*? in room



July 26 - Left Villa Guaymas in the morning - stopped some forty miles beyond or some twenty before Valles in grassy bit with some *Ponciana* like trees 30-40 ft high - Caught 4 ♂ *Boopis* and a large ♀ short winged, also a short winged *Neconcephalus* and a few other odder & snobs & an *Amblytropidia*.

Country appears to become more humid beyond Valles - Bamboo in evidence. Vegetation most luxuriant about 15 or 20 miles before Tamazunchale - Had lunch here and started up valley. Had to go 30-35 miles about 4500 ft before we could find a camp sight - about a kilometer before reaching Santa Anna a small Indian village.

July 27 - went out collecting all morning - orthoptera very scarce - *Oryzulella* common a few *Machaerocera*s - mostly nymphs - *Aidemona* here &

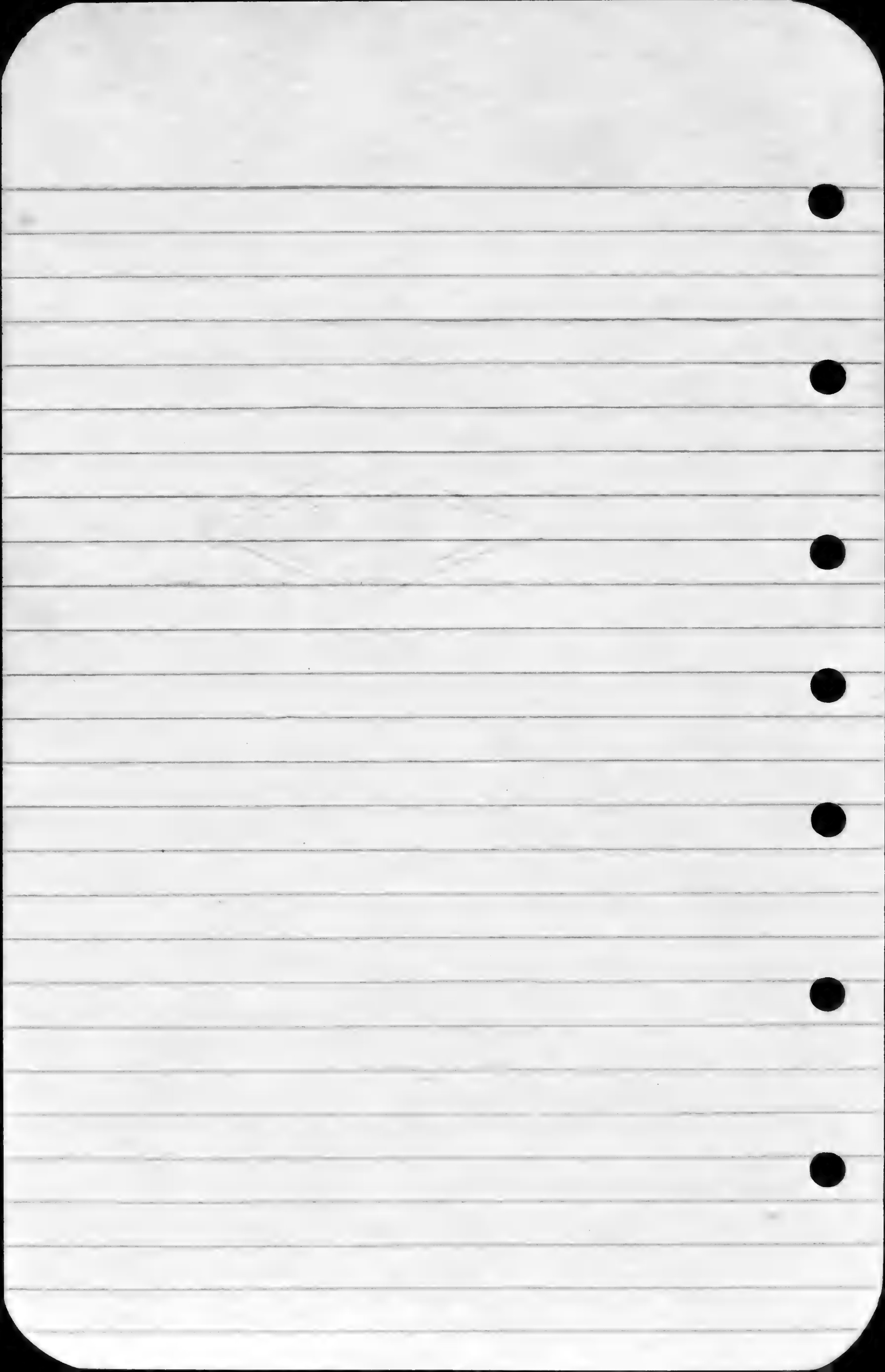


there but mostly nymphs - there is a small green *Schistocerca*? nymph (or *Macropsis*) met with occasionally - got one red winged clatterer. *Nemobius* very abundant - Caught many *Pezomachus* about camp sight shiny black cricket with green legs gotten by beating in bramble thickets. Have seen most of them first on leaves - Have caught a number of immat. but only one ♀ adult.

Went about 18 miles on along the roads. winds about steep mountains but country much the same - got two *Blattella* on leaves

July 28 Tamayunchale  
Elevation 500 ft. collected between 1500-500 ft. Left camp with Ed about 9 o'clock motored down to Tamayunchale 28 miles  
Stopped once alone 3500 ft to see if there were any of the *Phaedrotettix* like the

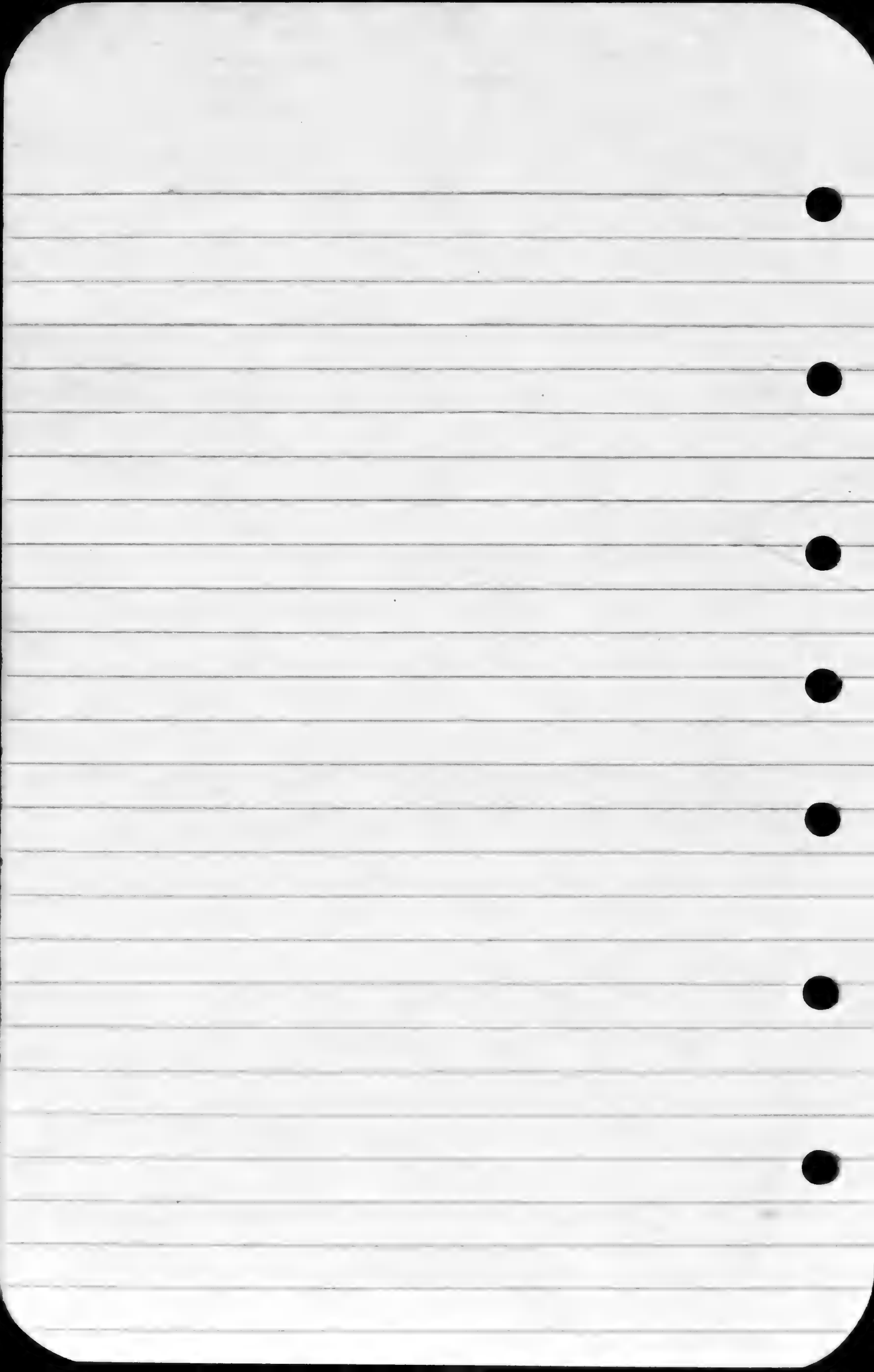




## Tamagunchale (cont.)

the female taken around the camp. Got one male, but was mixed up with material - stopped several places above Tamagun - not higher than 1500 ft. Got most of the Phaedrotettix like like hoppers in heavy weed tangles usually sitting out on weeds - rather puzzled about small blue faced ones. Got two up some ways above Tamagun - without any white on sides of pronotum - the rest of them have white on sides of pronotum - Also saw unusually large green legged brown backed ♀ there that I missed. Also obtained the two males with the red dorsum here the female may have belonged to this species. Got large ♀ Schistocerca here also + Chromacris. Also Leptocoma like hoppers as well as below.

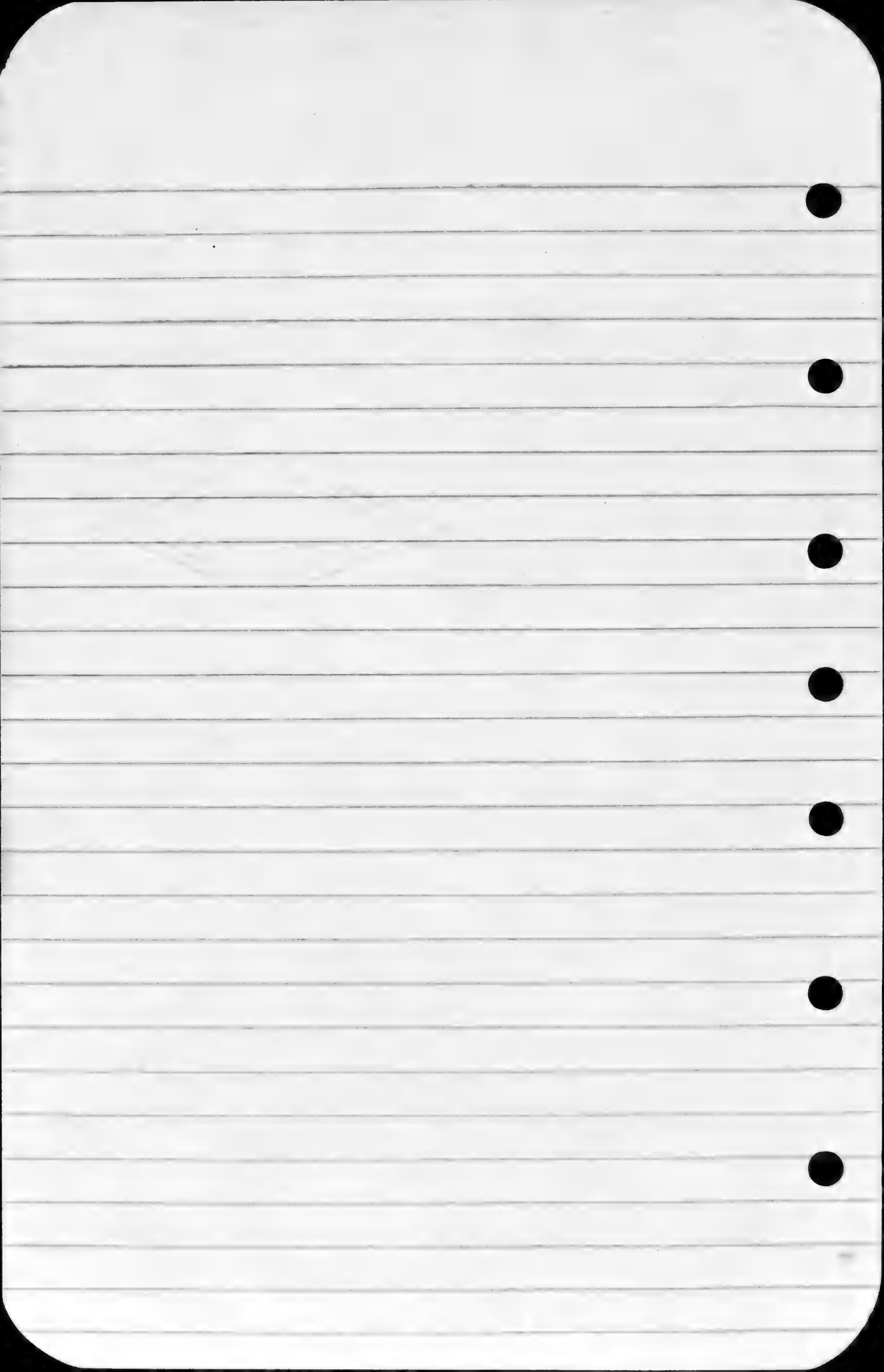
After lunch went across river for a short ways and went down some ways on a





## Tamaryanchok (cont)

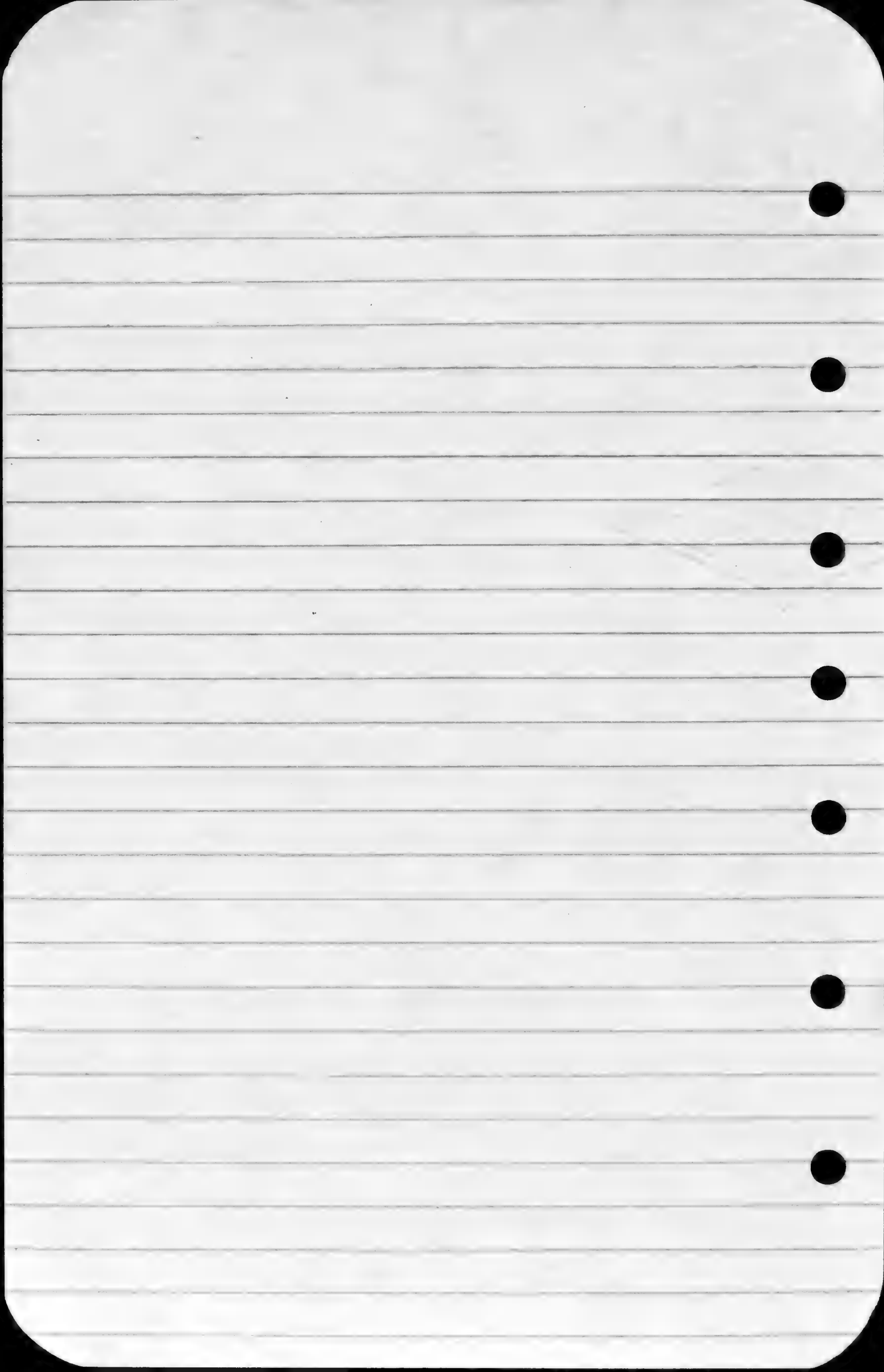
cart road - Many *Phaenotettix* along road, though far from easy to locate - I picked up most of the red winged hoppers here except of the two tremuloidis like hoppers which were taken in the morning. Went down trail in well wooded bit. *Asphondylia*'s common in sunny bits. Males made a sharp buzzing noise when they flew. GOT *Phasmodon* on *Brionellia* here - There was a curious green butterfly that made a rapid snapping noise at times when it flew. Got two and it seems to be due to the banding of the tip of the forewing - got *Amphispiza* here also. At the end of the road there was a grassy field - *Amblytropidia*, *Asphondylia*, small *Schistocerca*, *Neonaphtha*, but crickets along border of field by sweeping in plants and plants at edge of wood also the grouse larks - Got a pair of *Pipilo* just



above Tamayunchale -  
*Aidemona* common both  
small nymphs & adults.

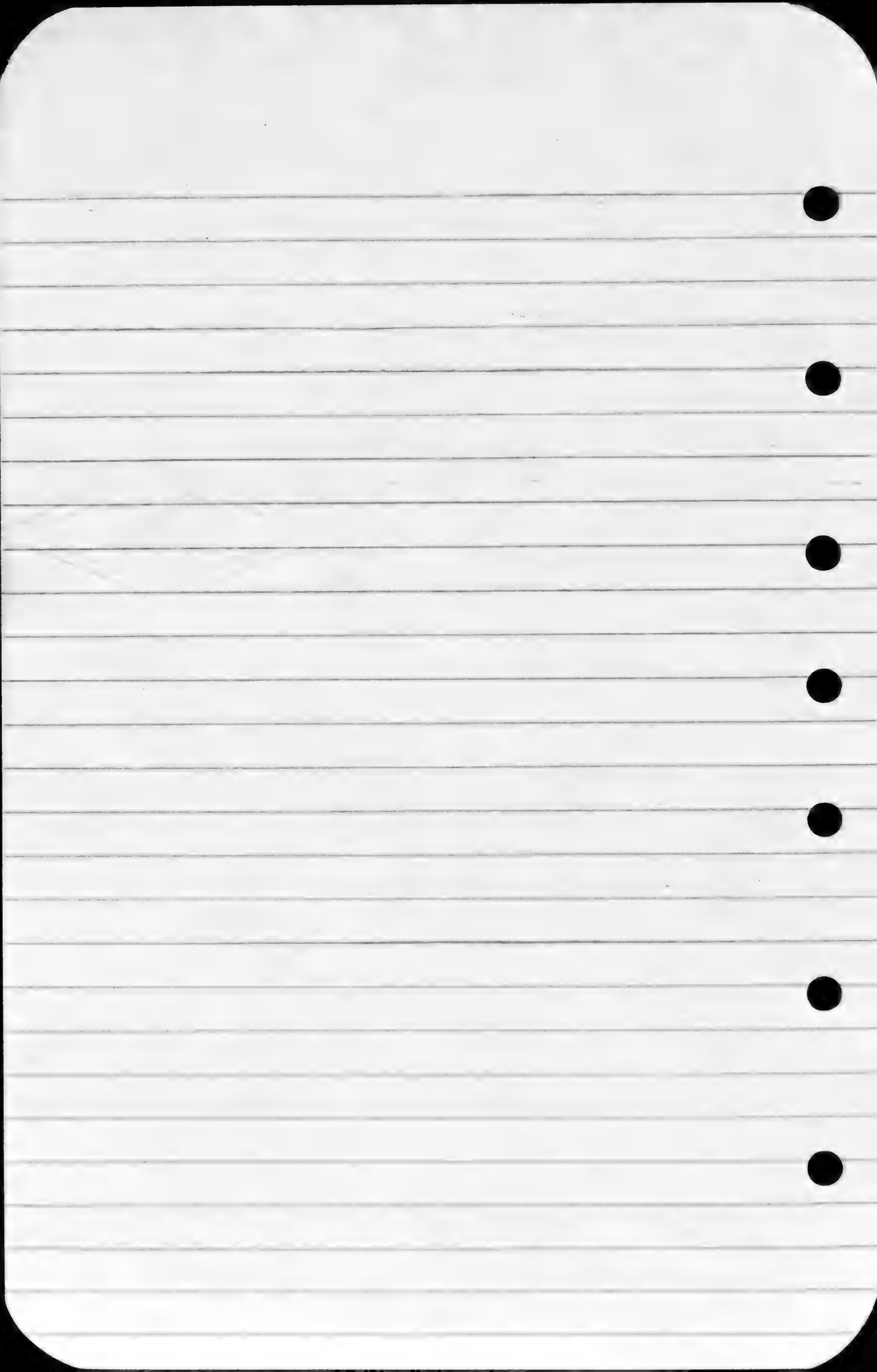
July 29 - Went in morning about  
25 miles on road north of Tamayun -  
to another valley and across  
large river - Got little or nothing  
new in the way of hoppers, but got  
a good number of crickets mostly  
in wooded part on ground under  
coffee bushes - also got a number  
of *Phasmoda* - a different species  
& habitat - they were found also  
in well shaded areas under  
coffee plants or large trees.

Afternoon went back up to  
camp & collected at stops of the  
previous day between 1500 - 2500 ft.  
Got nothing much new - Ed saw  
one of the red backed short winged  
*Melanoplus* - but could find no  
others. - There seems to be very  
little above 2500 ft to camp about  
4500 ft. - Got male of little black  
green legged cricket in same



Bushes & vines as before

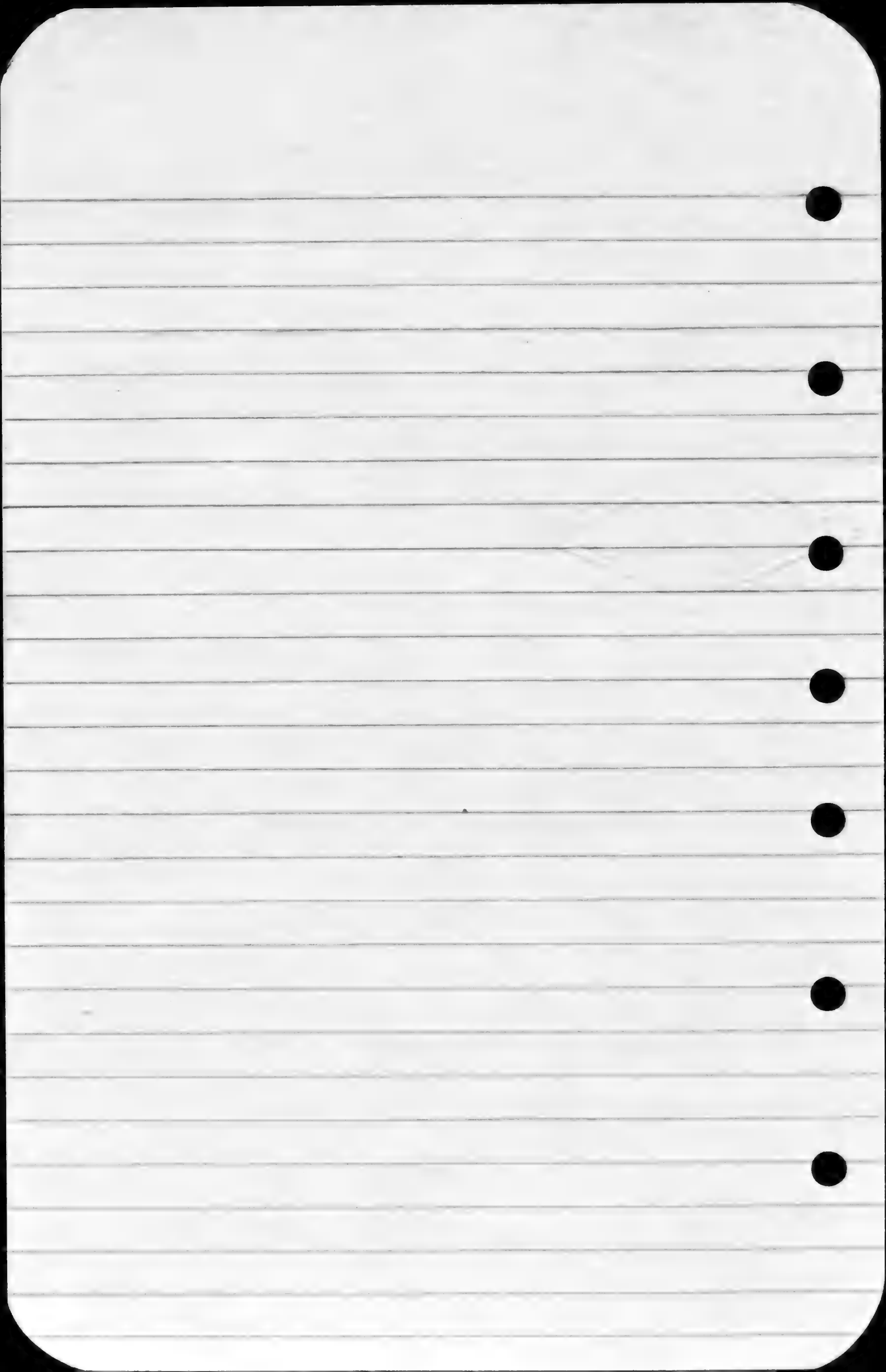
July 30<sup>th</sup> left camp and motored through very beautiful but much the same country for about 23 miles or within seven or eight miles of Jacala when the country suddenly changes to oaks about 20-40 ft high with scattered pines & cedars. - It seems slightly dryer and ground pretty well covered with dry leaves & scrubby bushes - collected here and got a fine haul - There were five short winged Melanophli and a number of Oedipodids - all of the former were kicked out of the low scrub - went on several miles to the slope going down to Jacala & stopped for lunch - found several *Dactyloctenium* on bushy hillside - they were in or around clumps of Sumac - quite a different habitat compared to the *Dactyloctenium* taken





North of Monterrey - Motored through Jacala and road rises again very rapidly to slightly over 7000 ft - went about 20 miles beyond Jacala & found fine camp site - country much the same - Hills covered with oak and occasional pine & cedar with bits of short grassy pasture & scattered legume.

July 31 - Returned to Jacala & collected on the way - much the same material obtained as the previous day - got large crickets & Blattids out of small stand of weeds on edge of pasture - practically destroyed the former in trying to exsiccate it. - stopped on dry rocky hillsides with scattered cedars and bushes - warped. Found *Dactyloctenium* here & Ed much elated. Here again they seemed to be closely associated with the same types of sumac bushes though they were found on other bushes & cedars occasionally.





It was very difficult to get any number as they were found after much searching in twos or threes and there were a good many bushes about to search for them. *Ichneumon* was here also and Ed found a pair in copula - This was satisfying as we were not sure if they were adult - The male is a very small little thing and looks certainly like an immature as well as the female & for this reason probably frequently overlooked by collectors. They were found mostly in among bushes several feet high as well as weeds. Obtained several *Insara*? in bushes but very scarce or hard to locate - Hazel collected some material around camp - got fine short winged *Blattids* around stone in camp.

Margaret Verde

Aug 1st - rained all morning  
& so did not go out - afternoon  
cleared late - pattered around  
hillside with hoe - found, four or  
five *Centrophilus* and an immature  
"kicker"? under dead agave plants  
on wooded hillside - ground rather  
damp - much humus - set out  
traps but no result - night very  
cold -

Aug 2 - went south about 45  
miles to Ixmiquilpan going  
through Tlaxcala & crossing  
the Tula river twice - average  
elevation between 5-6000 ft  
Country suddenly get very  
dry about five miles south  
of here - very little vegetation  
at all - some very short  
grass and a few scattered bushes  
& cactus - just before Tlaxcala  
however the rather luxurious  
type of arid vegetation begins.  
Large cactus of all sorts &  
bushes - very little grass -  
this type of vegetation



more or less continues at least  
as far as Samiquilpan - we  
did a good bit of collecting  
just beyond Timapan.  
got a new type of *Aethiacris*?  
many found in popula - found  
the little *Melanoplus* that I  
obtained last year near  
pochuca. *Syrphella* common -  
a great number of *Oedipodid*  
nymphs about & Phil got a  
*Dactyloctenium* nymph - I got one  
further on - they were little  
more than 2nd or third instar  
also on Immature *Taeniopoda*  
on a large Pear Cactus. Got  
two red legged *Trimerotropes* on  
road way at first bridge  
of Tula River, a few *Schistocera*  
about as well as *Thrinactropis*  
*fulvidipennis* - Haven't got  
female phasmid as well as  
curious little ♂ cricket  
It should be interesting  
to collect here later. —





Aug 3 - broke camp collected again at locality beyond Zimapan Km. 196 and got more of same material

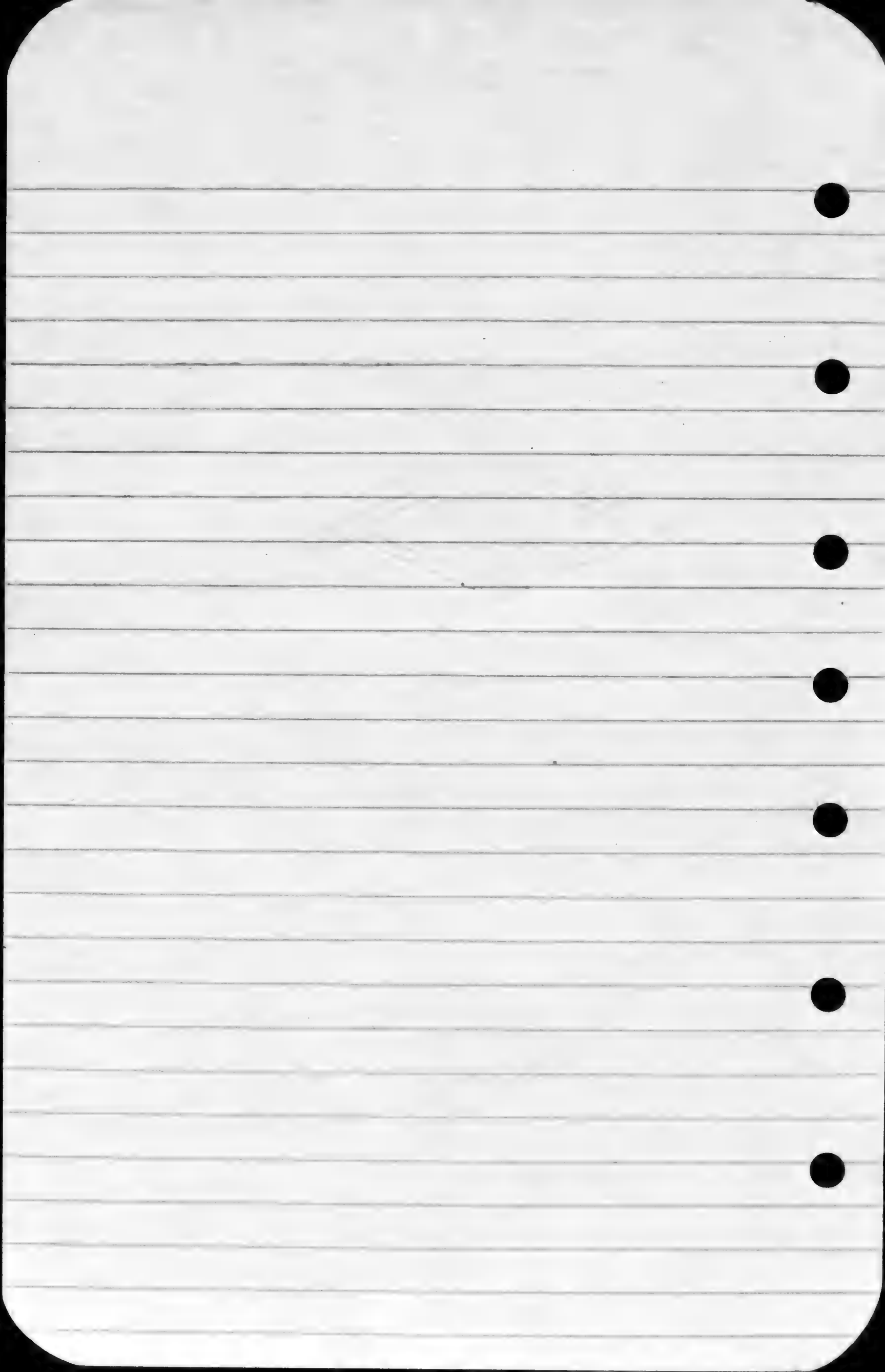
Stopped later for lunch beyond Saniquilpan - more arid - ~~little~~ very little grass - got one of the small melanopli however -

went on to Teotihuacan and spent the night near the temple - very little in the immediate vicinity except nymph Sphenarium were all over the weeds but about only second instar.

There were a few odds & ends about as *Trimertropis pallidipennis*

Aug 4 broke camp and went to Shirley courts Mexico City.

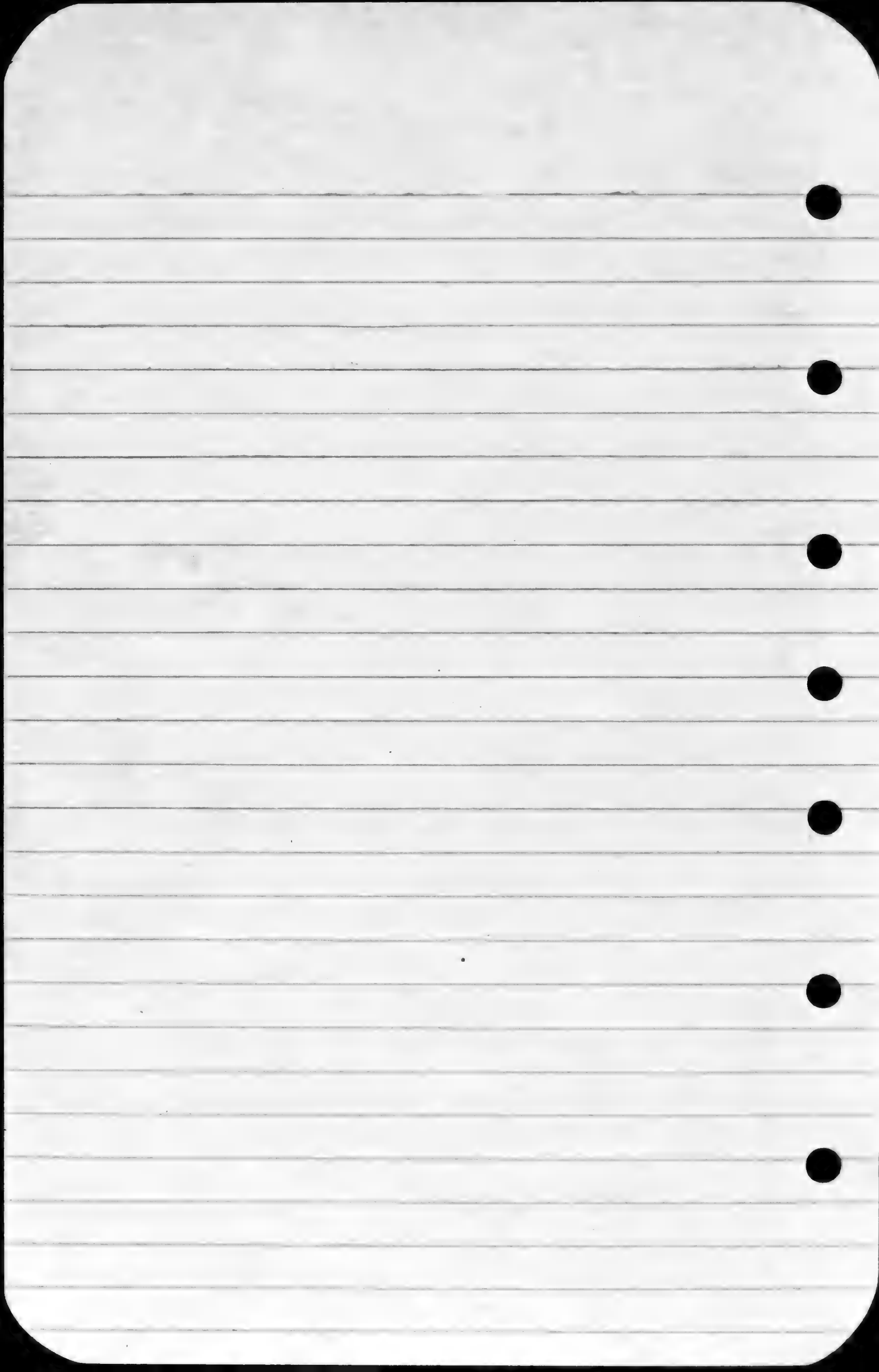
Aug 6 - had lunch at San Angel in with Hazel and motored up to Convent in heavy fir forest - stopped at grassy bit near road  
8500 ft





and found a number of short winged Melanoplus in the grass & weeds - there appears to be more than one species as one male was darker with red legs - Ed took the aduach of it - worth returning there again

Aug 7 - Started for Acapulco. Stopped for minutes in high country with tall grass 9000+ ft got a red legged flies - there were a number of small melanopli nymphs - Stopped on way down to Cherruavaca 7000 ft pine and oak cover grass sparse grass & weed cover - pine needles - got a short winged melanopli Schkottelise - the latter abundant - many Acanthina & took a series as there seemed to be a good deal of variation Phil got a tettigid & a very small Oedipodid - got Hemichus along edge



of road in short grass

*Sphenarium* 2nd instar  
also common along edge  
of road.

Stopped for lunch below  
Cuernavaca near small river -  
*Sphenarium* nymphs - 3rd instar  
about very abundant  
in weeds & grass - got three  
mantids here also - got  
Blattellid by beating brush  
*Scylliops* in grass also  
*Amblytropidia* - many  
nymphs about.

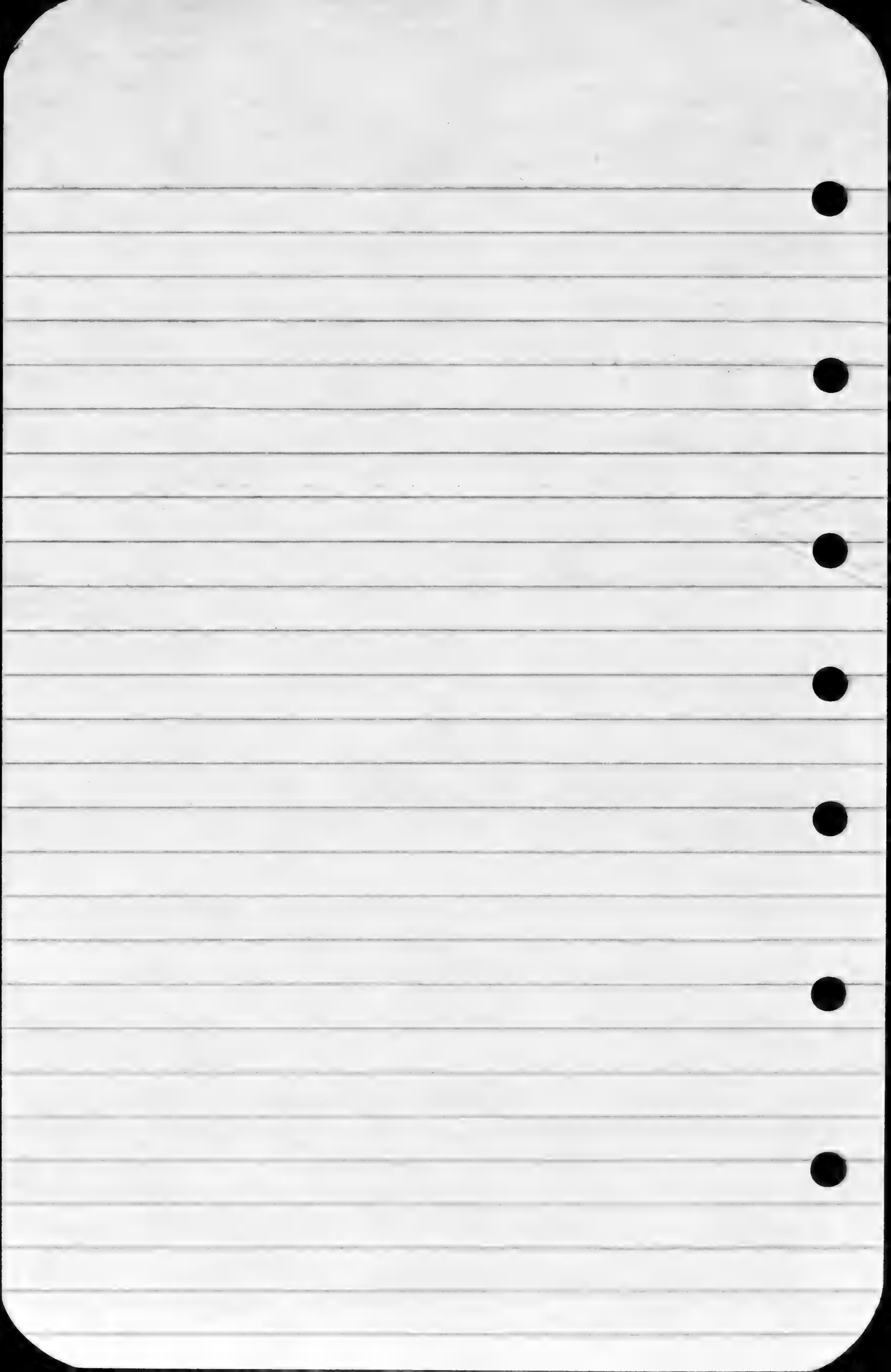
Aug 8<sup>th</sup> made camp night  
before a few miles above  
Equula - collected a few  
odds & ends about camp before  
leaving - stopped to collect  
on the far side of the  
lagoon - everything immature  
except for a few flyers  
*Sphenarium* everywhere -  
collected just before  
Chilpancingo & got little  
of interest but many nymphs



collected just beyond gorge with  
rather luxuriant vegetation.  
got a couple of blattids out  
of the bushes. - stopped  
for night in park like  
country 5000 ft - thin pine  
forest with grassy cover.  
This part is apparently  
drier as the vegetation  
seems very scant. very few  
hoppers

Aug 9. went direct to Acapulco  
no collecting. made  
very good camp - Langostas  
beach in coconut grove  
owned by Sr. Oliver

Aug. 10 - went out on road  
north. everything seems  
much further behind than  
last year no adult *Sphaerium*  
have found no *Chromocoris*  
where I saw them last year.  
no adult *Helanogaster*  
got one *Eumecurus*! in  
short weeds under trees about  
25 ft high bordering pasture

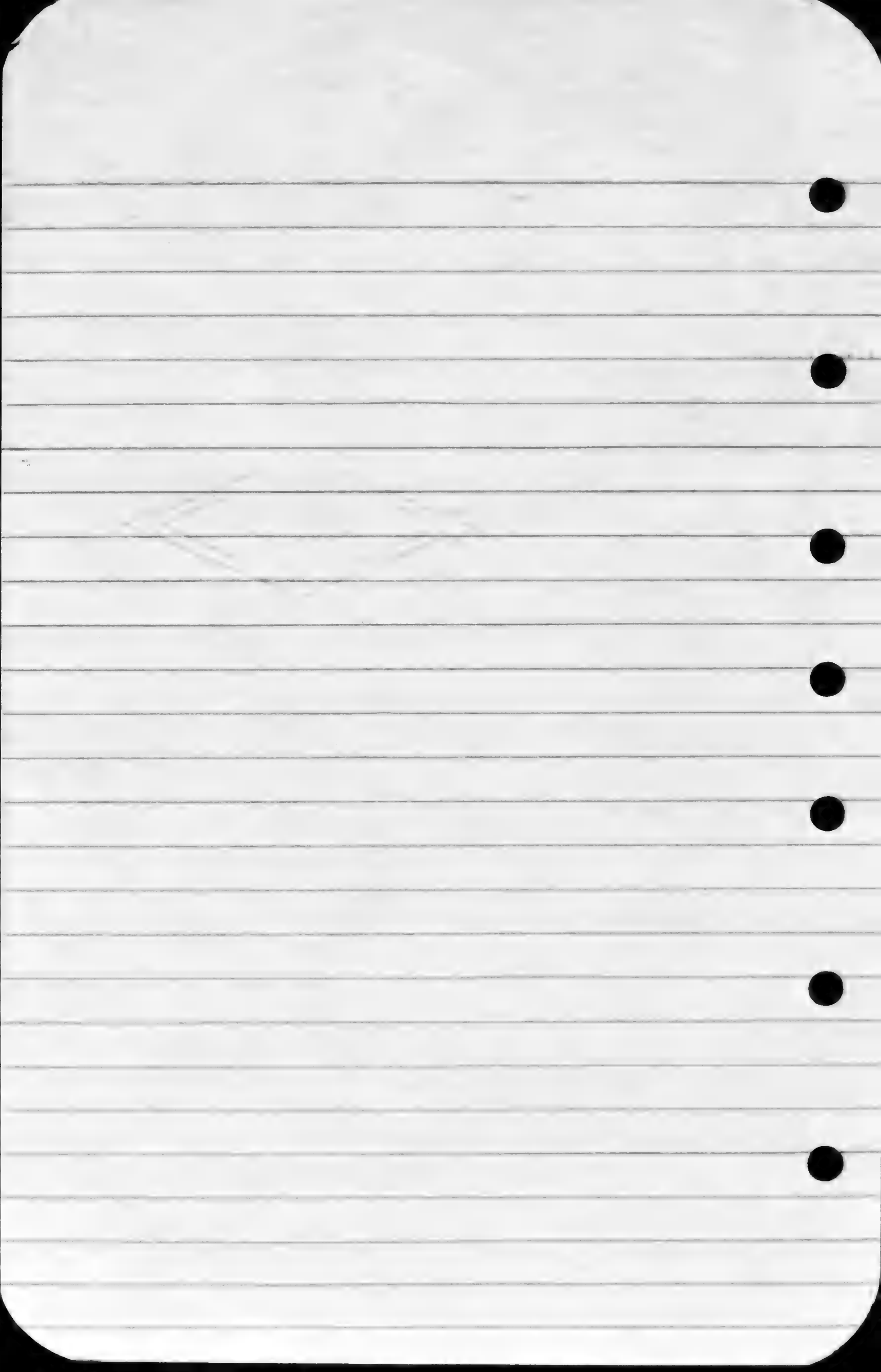




spent an hour looking for more  
but found no sign of one -  
looked everywhere - got a  
good series of 2 species of  
Oedipodids in dry gravelly  
wash - frightfully hot

Aug 11 went North on road  
again to look especially  
for Eumecurids - Ed said he  
saw one & had it in his  
net but escaped on shrub  
on edge of path through some  
high scrub - no sign  
of them otherwise - there  
is a little Melanoplid  
hopper with blue legs (about  
but not a adult).

Aug 12 - went out to Pie de  
la Cuesta got some two  
small species of long  
horned crickets - found  
the short winged Acridid  
in peculiar grassy field  
- quite different from  
locality East of us





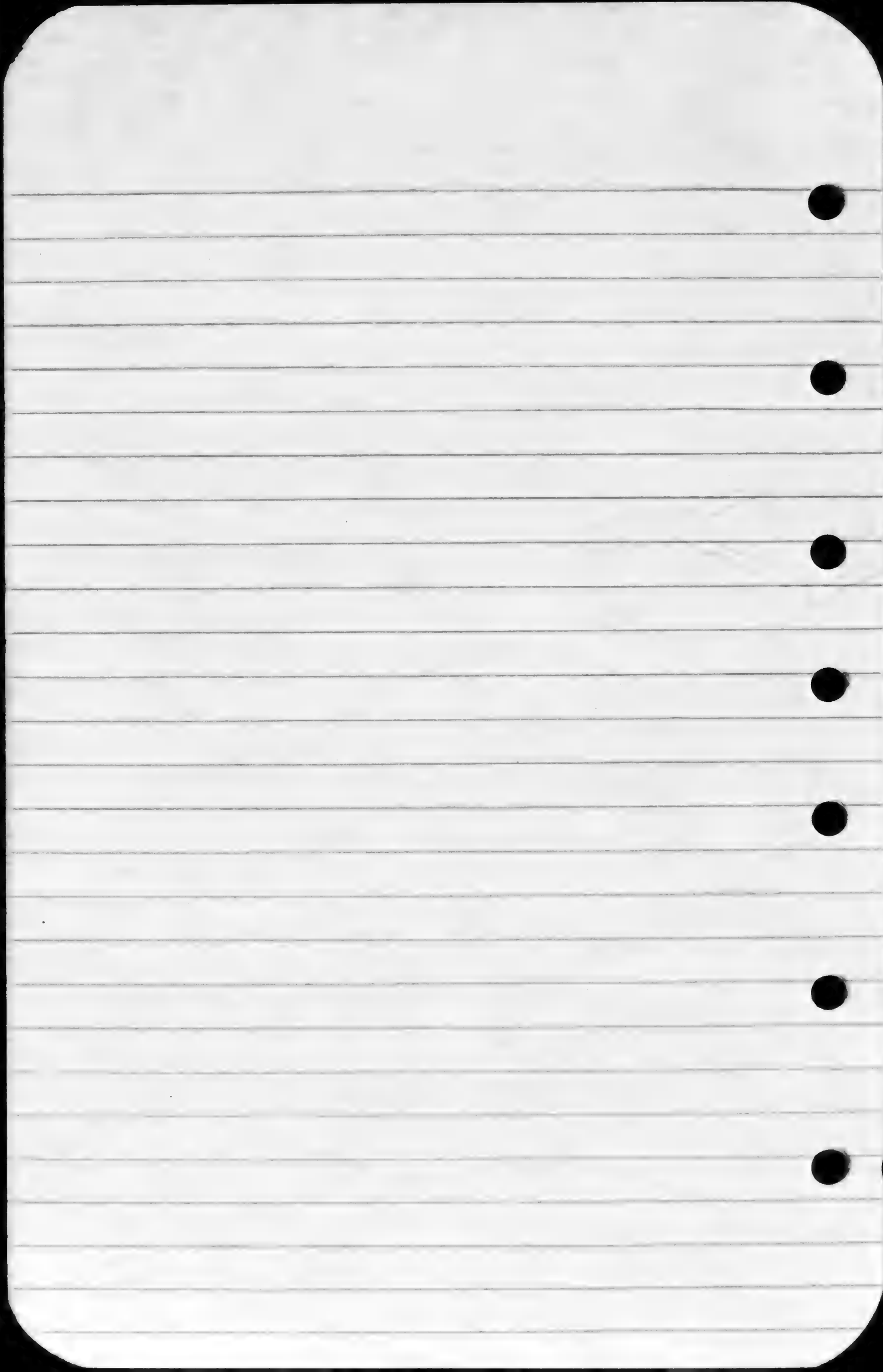
- ed got 0 of larger long  
horn on the way out in  
heavy slashed country. on  
~~the way out~~ - also got some  
more of the immature  
melanoploids on thick  
vine tangles.

Most of the accessible country  
seems to be very much cut  
over for wood by the Indians  
& hence very difficult to find  
any natural wooded bit.

- Got Mantid towards  
Culebra beach along trail  
near water.

Aug 13 - went out to Pie de la  
Cuesta again - Got little of much  
interest - Got several adult male  
Melanotettix - no adult ♀.

Aug 14 - went 20 miles N of Acapulco  
with Hanch to again look for  
the Eumastacids. Found well  
wooded country - got into a  
heavy vine tangle by river &  
found *Myrmica* *Tenipoda*, *Myrmica*



Melanoploid + 3 immature grey  
wingless longhorns - Elevation  
here probably 15000 ft - sphumorum  
everywhere but appear to  
be smaller here

Aug 15 - started back for Mexico  
City - stopped near a little town  
called Orizaba about 2500 ft  
rather wet sloping meadow few  
or no weeds - Got a number  
of *Deidromorpha* <sup>robusta</sup> ~~fraternalis~~?  
one or two *Orthocentrus*!

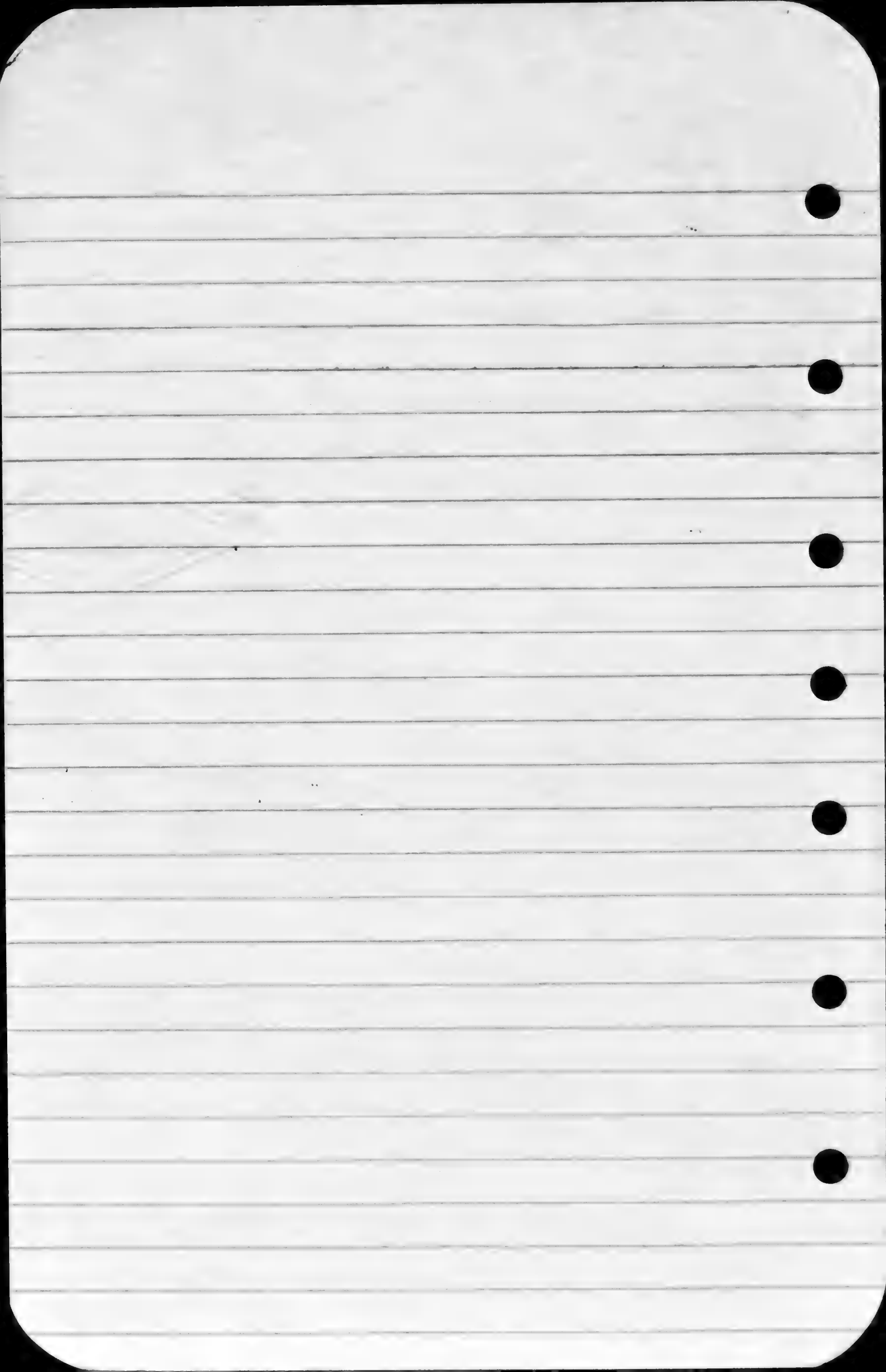
Aug 16 Stopped to collect in a  
gorge about 20 mi S of Chilpancingo  
about 3500 ft - got several  
adult a couple of immatures  
melanoploids in vine tangles -  
very difficult to find - only  
way was to spot them sitting  
out on a leaf and there were  
a good many leaves to look  
at. Also got several immature  
*Teinopalpus* - went a short distance  
further to where good feed up to  
a grassy pasture. Bit of



found Lepus? in bushes

3-6 ft high in pasture on hillside  
very pretty when in hand - they  
seemed rather soft - many were  
just moulted - pale yellowish  
green with light soft blue  
markings - also got  
*Shistocerca* Amer. - *Amphispiza*  
& several song sparrows of  
much interest. I also got a  
number of Blattids by beating  
among some low weeds in  
the meadow

Aug 17 - Collected around  
Cajup near the head of the  
Canon de las Zapalotas about  
20 mi from Rio Balsas - 2500-3000  
ft. Got a number of *Trimastix*  
along river on flat sand &  
grassy lit. *Aideimon*  
fairly common - got one Arphid  
on hillside dry brush and  
cactus.

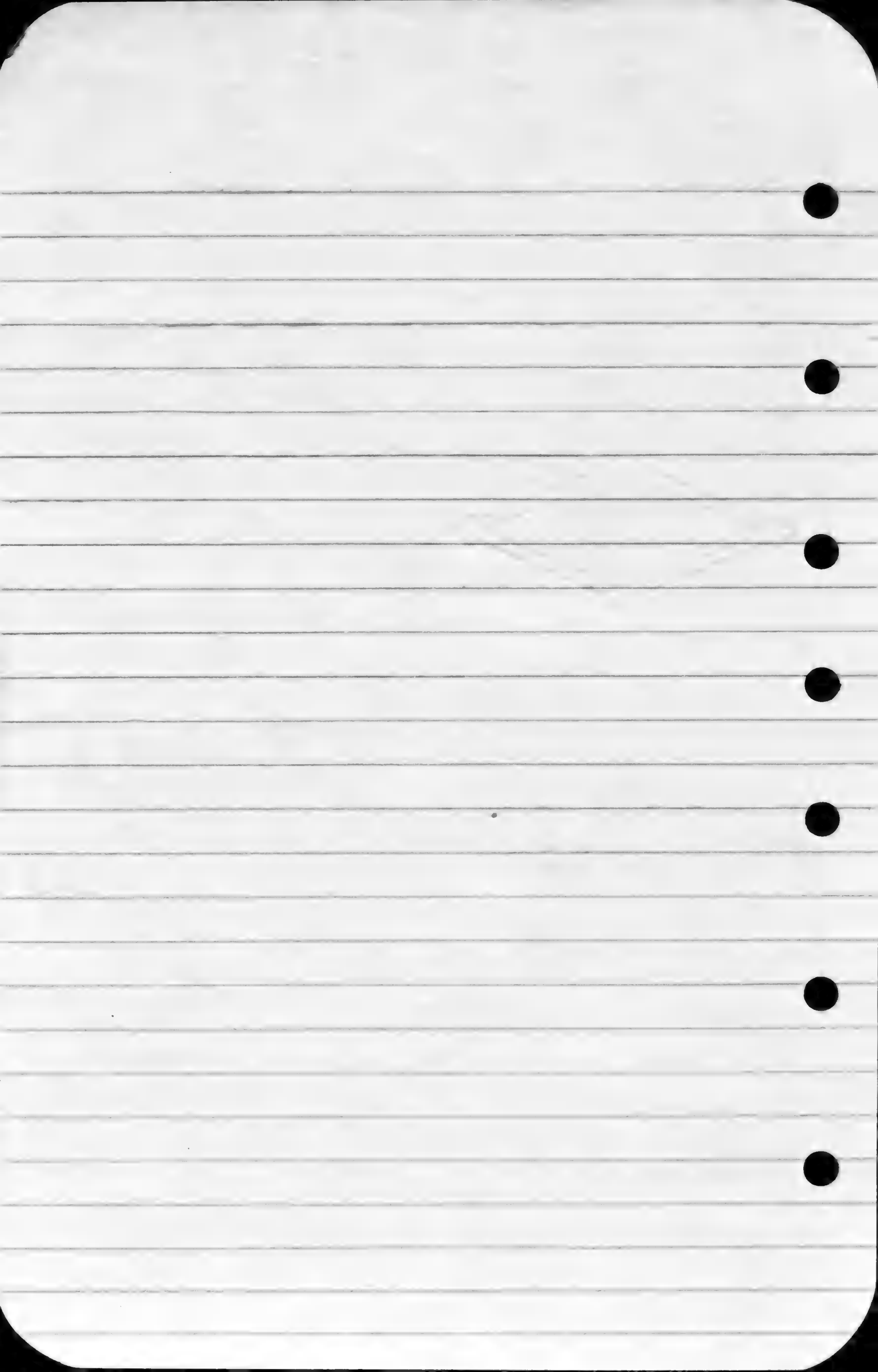




August 18<sup>th</sup> collected in  
gorge below Cuernavaca  
4500 ft - Nymphs of *Sphenarium*  
& *Machacrocera*, all over the  
weeds & bushes - <sup>saw results of latter</sup> got several  
little black *Melanoplois* nymphs.  
No adults - same size as last  
year. Got the *Sedypodids* along  
gravel road way - got an  
*Amblytropidia* & nymph.  
Also *Scyllima*.

Aug 20<sup>th</sup> - went up to El Desierto  
de Los Leones 8500 - 9000 ft.  
collected at lower edge of  
forest next to corn field  
got the little blue legged  
*Melanopli*, *Ichtyotettix*, &  
orange-red legged *Sedypodid*.  
Collected further up in grassy-  
opening of previous time.  
besides the little blue legged  
one got the red legged one,  
but much less common.

Could find nothing else in  
this region though we stopped  
at several localities in the





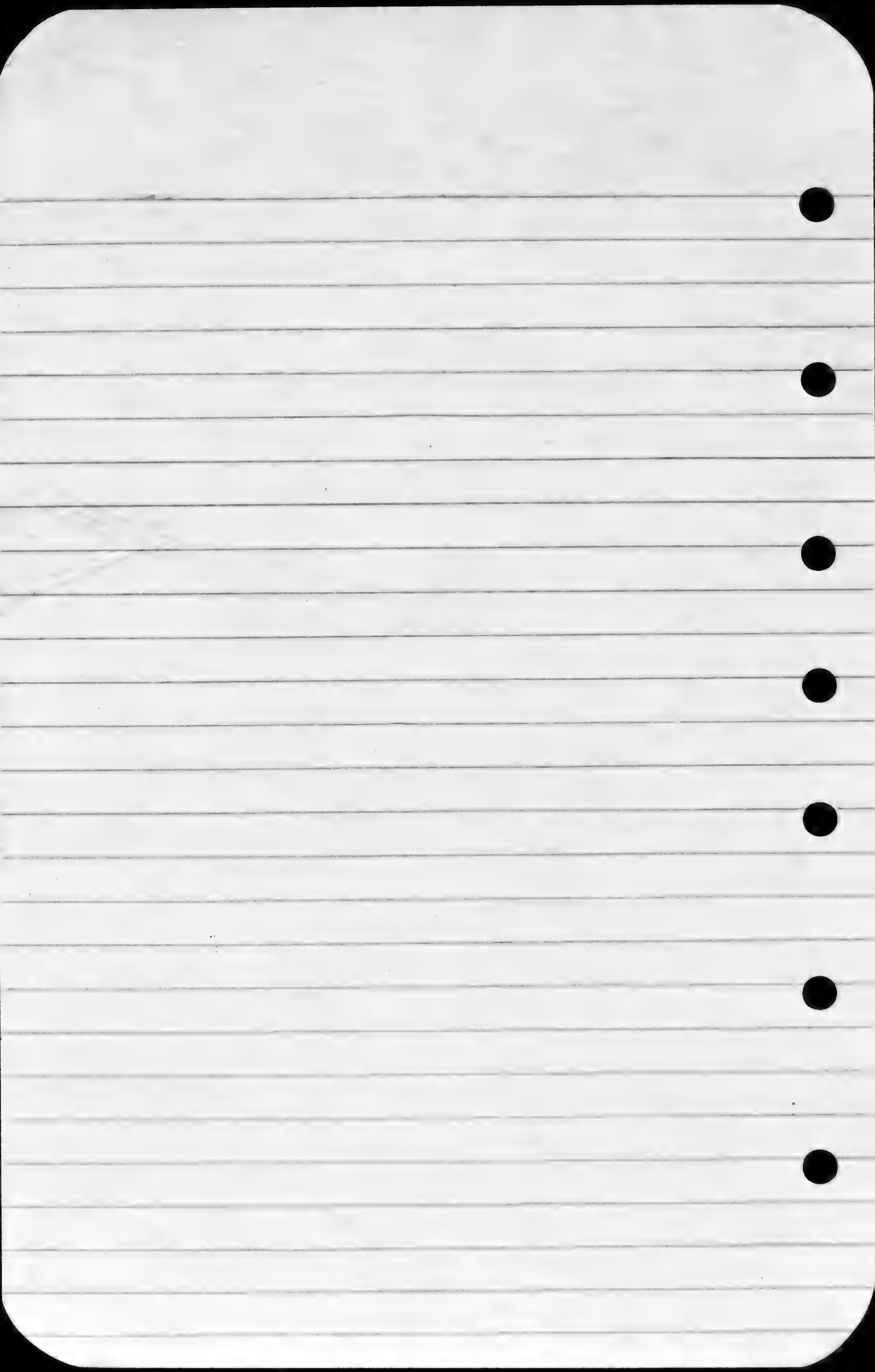
the forest. - then came  
in to the road to Toluca  
and went to the top of the  
pass - Las Cruces - slightly  
over 10,000 ft. - went up  
hillside - short grass & bushes  
with scattered firs & cedars.  
Found the little blue legged  
Melanoploid which was  
mostly in the nymph stages.  
Also the red legged flyer.

Went back to Mex. City on  
Toluca road - collected at  
Km. 18 & found *Perispermus*!

see Aug 21 -

Aug 21 -

Went back to Km. 18 on road  
to Toluca 8000 ft - This region  
is ~~rather~~ barren rather gentle  
slope up to the surrounding  
mountains cut by very  
deeply eroded gorges. There  
are some grassy bits with  
low clumps of bushes mostly  
made up of many low acacias  
with grass. In these clumps

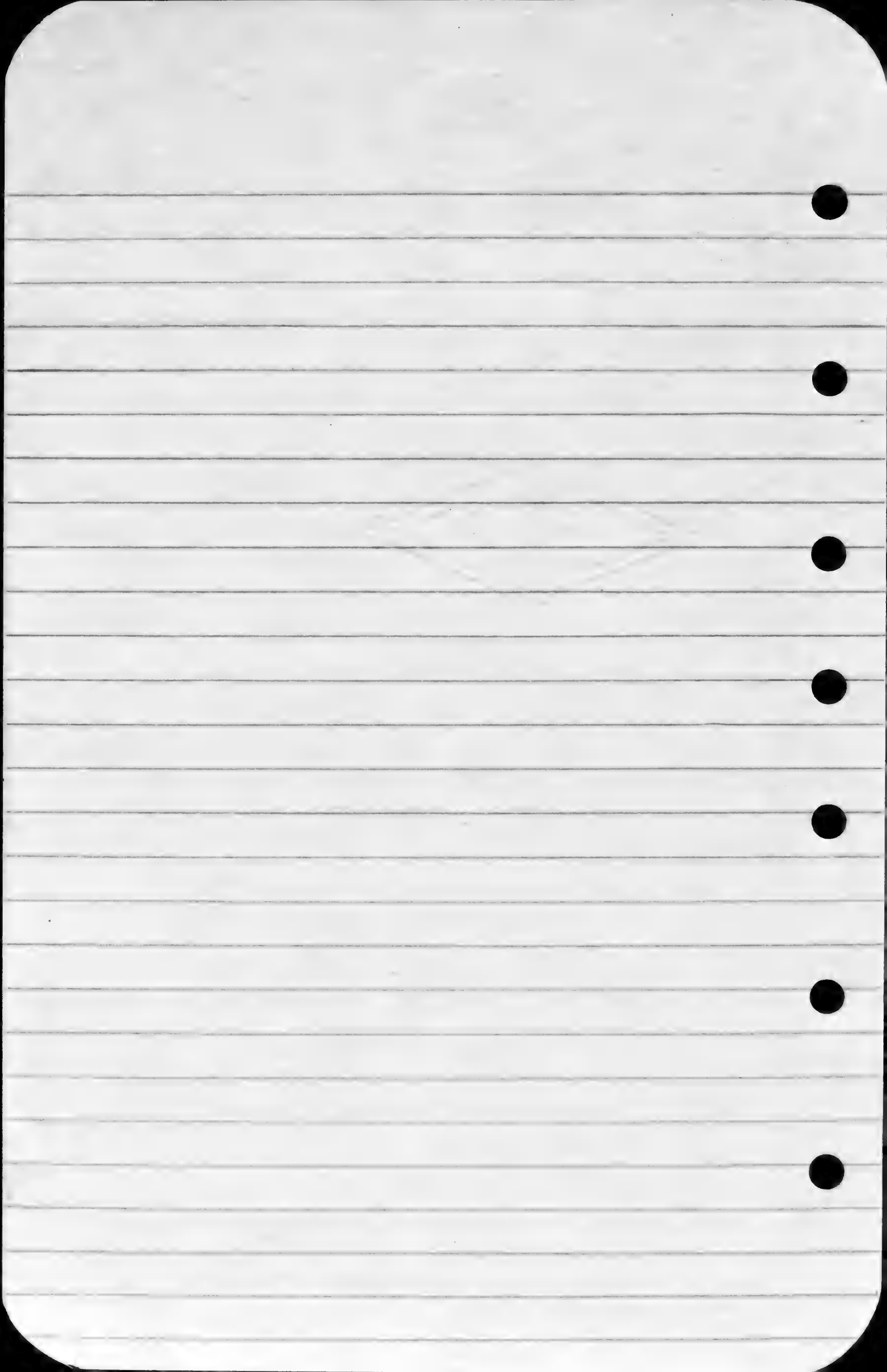


the *Perixerus* were found quite common. However 95% of them were nymphs and only obtained a few adult males.

There were patches of rich short grass and here was found the *Memobius* & grouse locusts also one of *Orpula* - it made a small continuous buzz when it flew but hard to locate - also got *Trimerotropis pulchripennis* on the barren ground. There were a fair number of small nymphs about - went along edge of a gorge where there was longer grass & scrub oaks 6-12 feet high - and found large blue legged *Theridion* - similar to one taken above Cuernavaca?

Also found red legged *Oedipodid* here.

Ed. found a ♂ *Icthyotettix*.



Aug 22 - Set out for Puebla & Tehuacan  
Collected just East of Rio Tiro Km 65 about  
9000 ft - got both *Melonopli* taken on  
western slope but red legged one more  
common, also red legged *Arphia*?  
and one *Phasmid*. Stopped lower  
down just beyond forested parts,  
practically nothing was found adult.

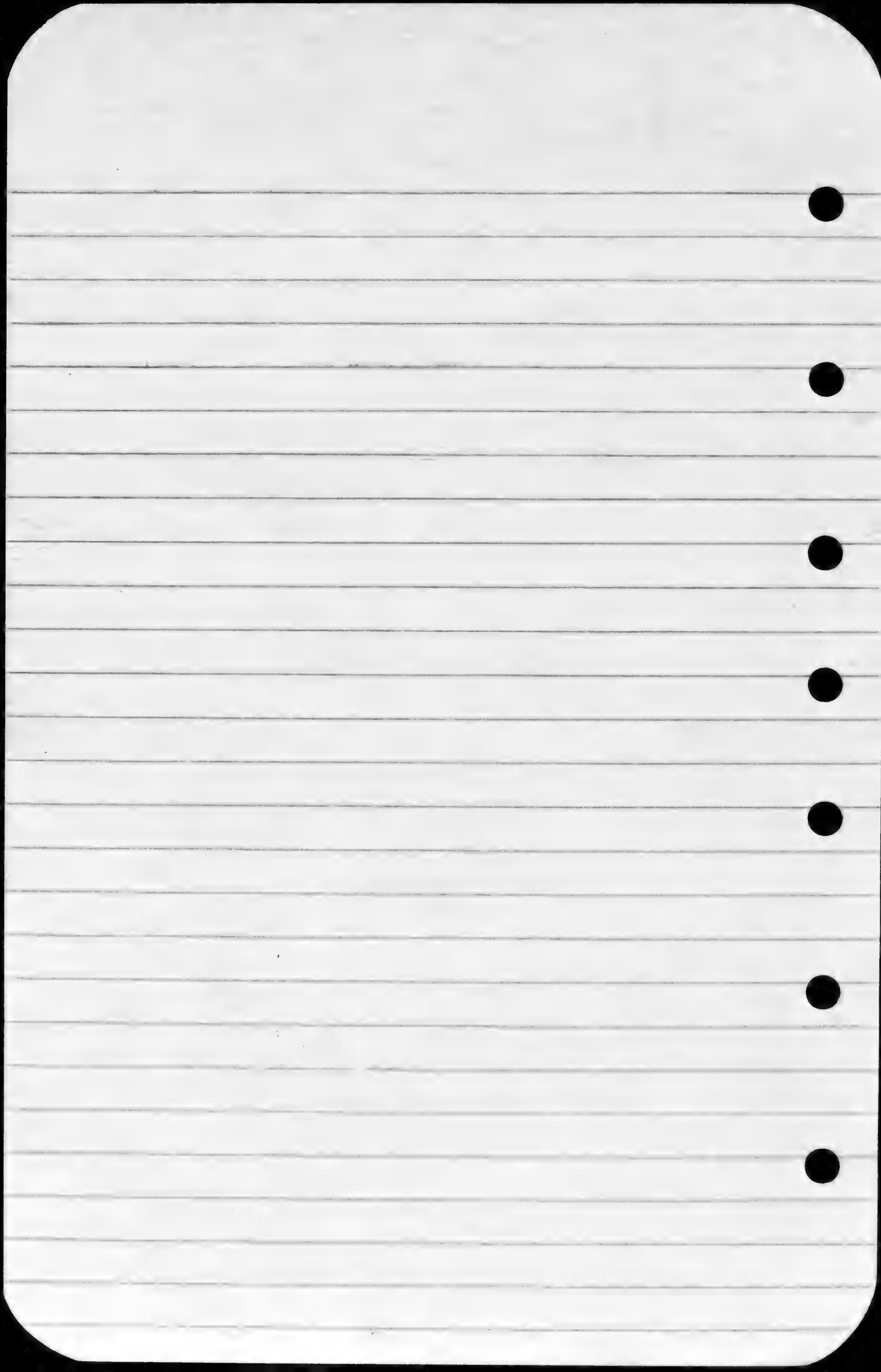
Some ways beyond Puebla  
(beyond Tepicaca) country takes on  
a very arid appearance. Much cactus  
& acacia and also large tree yuccas.

Made camp Km. 226 about 17 miles  
west of Tehuacan on a slight ridge.  
Country somewhat similar to that  
just beyond Mamolique Pass except  
much colder at night & higher. Tree  
yuccas & cactus larger & more abundant.  
Elevation 6300 ft according to  
aneroids.

August 23 - Collected around  
camp all day and got a fine haul.

A few of the *Sphenarium* adult.

Very small chunky things. All adults  
were green & males had some pink on  
their legs. - Are there two kinds of  
*Peltigella* like hoppers here, there





appears to be two kinds of moles?  
Got red legged *Trimastix* further  
up on ridge & much white limestone.

Aug 24. Went to Tehuacan (good  
road) then back N.E. on road  
to Orizaba (gravel road) - magnificent  
view of <sup>Int.</sup> Orizaba - road goes  
gradually up for about twenty  
miles then over a ridge and  
makes a sudden drop into the  
valley in which Orizaba lies.  
Collected here on our return.  
Natives in Occidente at the head of  
the valley call it La Cumbre (the  
ridge. Elevation? . . . . .). Rather  
low deciduous woods, grassy  
bits & weeds. Gets a good  
deal of moisture. Probably  
mostly clouds. - Collected several  
miles East of the center of the town  
of Orizaba - weeds & vine  
tangles along edge of coffee  
planted on hillside. *Phaenotellus*?  
abundant - *Chromacris* common  
on the plant they occurred on further  
North, *Solanum*?

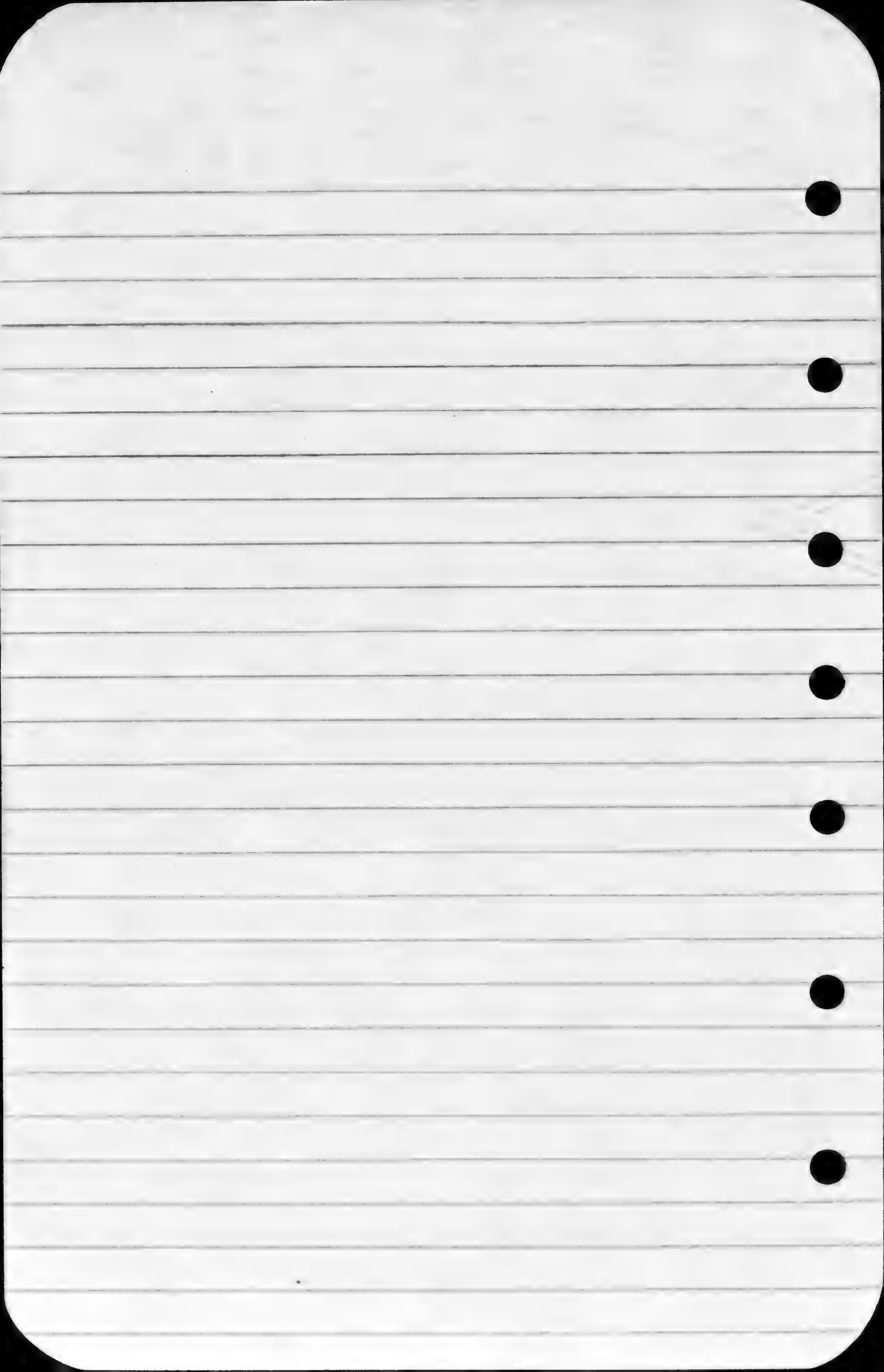




Found black  
nymphs of some ~~Melanoid~~ <sup>Melanoid</sup>

Small longhorns most abundant  
several species of Acridids  
Returning stopped at La  
Cumbre and ran into Dr. Taylor.  
Collected short time here &  
returned to Camp Km. 226.  
Dr. Taylor joined our Camp  
and amusing dinner.

Aug. 25<sup>th</sup>. Went out  
with Dr. Taylor, helped him  
look for Reptiles etc. (with him)  
got several snakes, frogs  
& shot some lizards. Dig  
up large large clump of  
cactus and found number  
of large Dichopetalon-like  
Cathophilus and Blattids  
These clump cacti seem to  
be very good cover for  
such insects, frogs & small  
snakes. Found nymph  
Cimicid apparently just  
caught on spider web  
near cactus, almost sure  
I saw one the previous day  
and will endeavour to  
find more on our return here



— in afternoon dug out more of chumpeactus and got similar material incidently a large light coloured rat came out of one of the chumps obtained more Blattids by shaking pieces of dead tree yucca.

Aug. 26<sup>th</sup> B. N. & camp, left for Cordoba, leaving trailer at Tehuacan. Collected between La Comlure and Tehuacan, semi-arid but with considerable weeds, got many of the species around the 2<sup>nd</sup> camp except we found the black Melano-plitid nymph here.

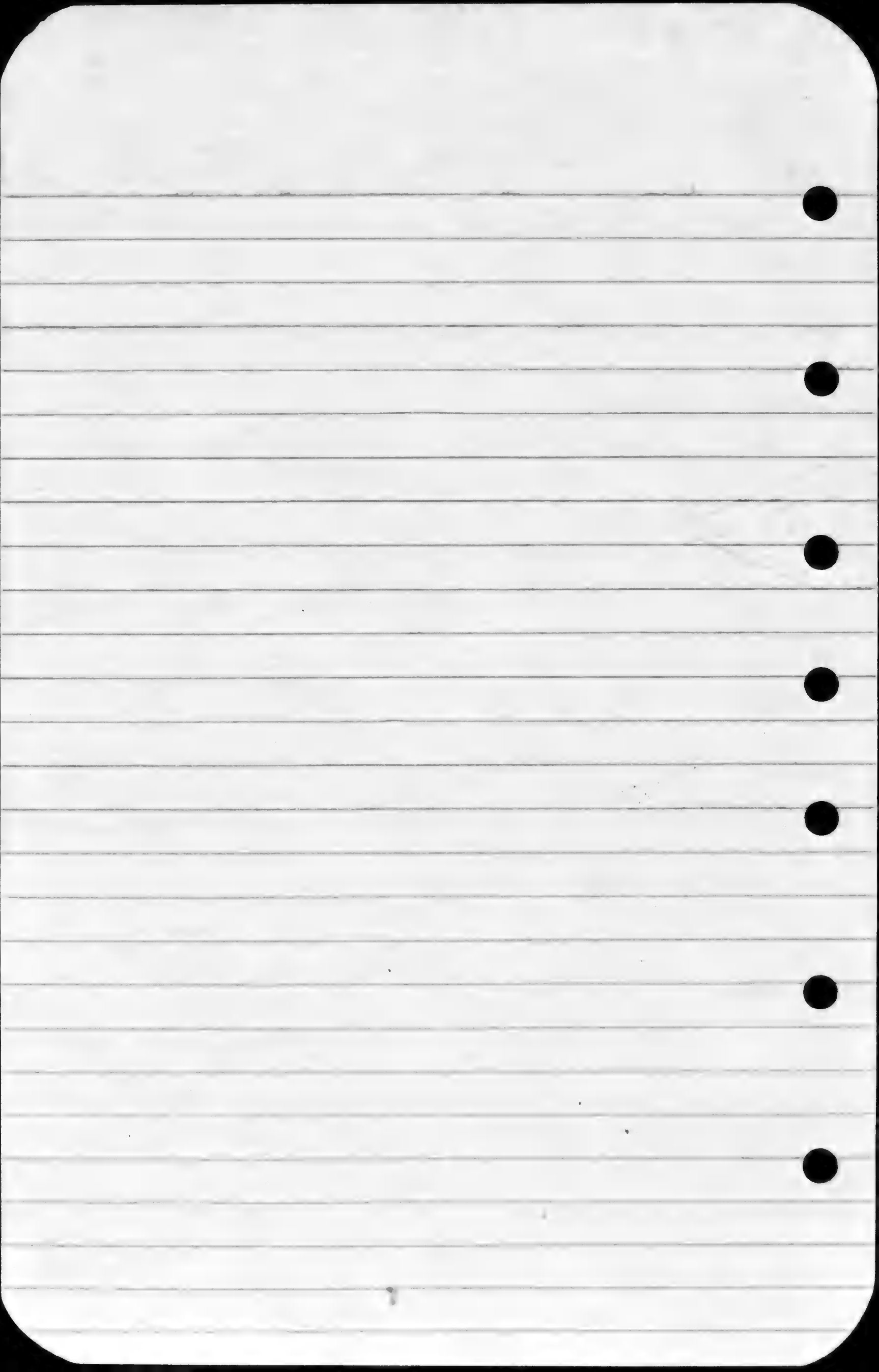
Went on to crest of La Comlure and collected here on a grassy and weedy slope surrounded by humid oak forest. Found interesting green Melanoplid also a red winged Oedipodid and long winged Melanoplus.





Went further down slope  
stopped for lunch collected  
here and got a pair of  
adults of the black Melano-  
plid nymphs, also a  
species of short winged  
melanoplerids both of these  
were found in thick weeds  
along road-side. Arrived  
Hotel Zavallos, Cordoba, about  
4-30 in heavy rain. Very  
tropical in appearance  
here but quite cool and  
pleasant climate.

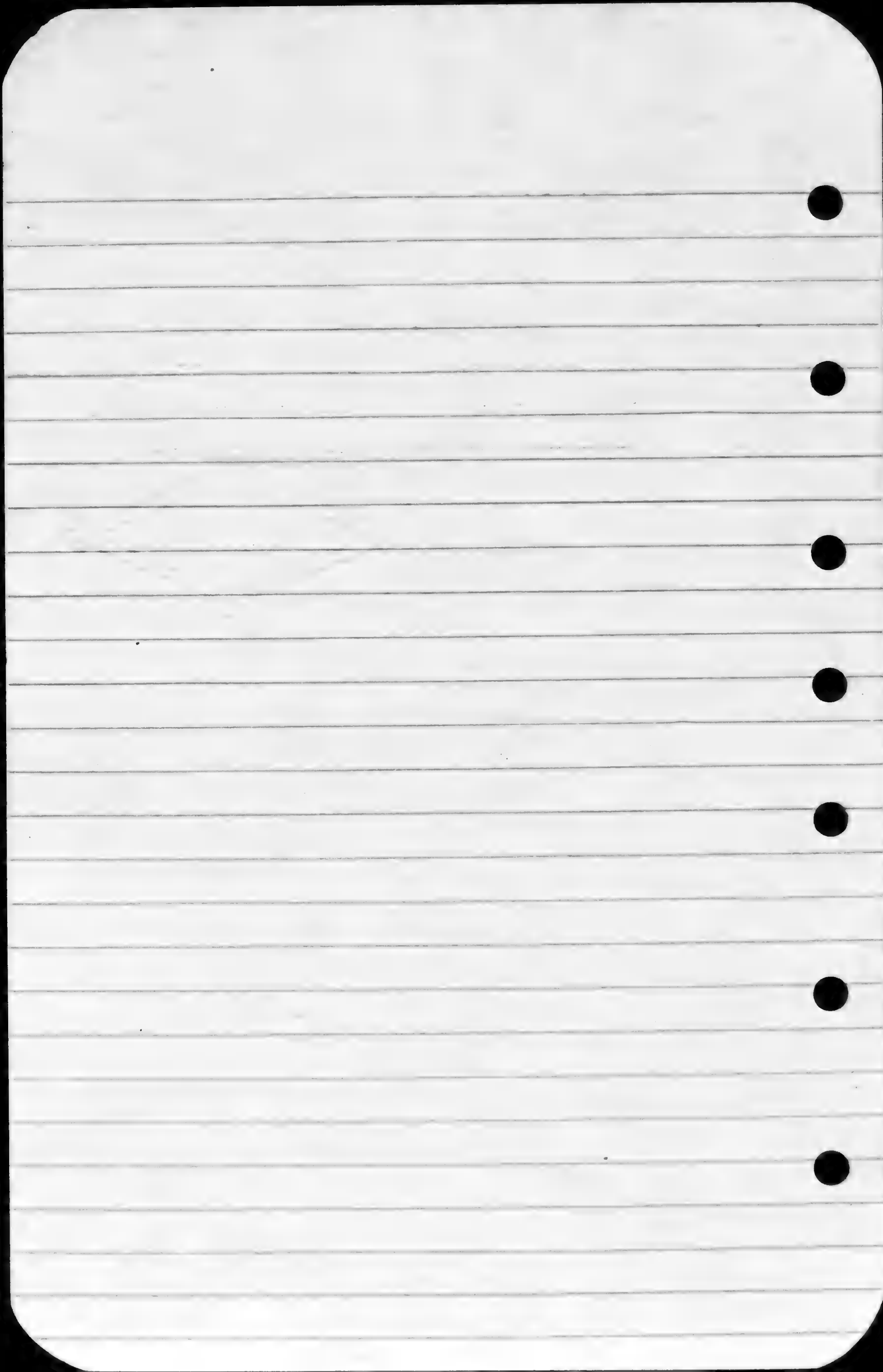
Aug-27<sup>th</sup> - Went back  
along road several miles  
towards Cruz Alta to Km. 329,  
where road dips to bridge  
over two torrents, collected  
here all morning. Very jungle  
and forested on the surrounding  
steep slopes, in which is  
planted when poss. coffee.  
Got many sphincurius  
about 50% of which were  
adult, in weeds along road-  
side. Also several species





of Acridids were also. Spent  
much time at foot of  
slope on which coffee  
was planted in semi-shade  
and found here a large  
number of species living  
on the short grass & weeds  
or surrounding bushes,  
such as, short winged  
Acridid, *Rachiceraea*,  
*Phasmids*, *Xyronotus*, many  
long horns and grass locusts.  
Got Blattid out of Bromeliad  
which was on the ground.  
Got broad winged Mantid  
in weeds along road way.  
Stopped between here and  
Lardol in higher and  
more open country and  
obtained in particular  
the large slim-winged  
Mantid and a large female  
Acridid.

Aug. 25<sup>th</sup> — Returned to  
Km. 329 by rivers and got  
chiefly a large series  
*Xyronotus*, & *Rachiceraea*



also Phasmodids. Got *Cen-*  
*Hopbilus* like nymph under  
rock.

Aug 29 - Took road to Portrero  
to the East. Could only go as far  
as Portrero Viejo, 8-9 miles  
collected about 5 mi E of Cordoba  
in large coffee & banana plantation.  
Turned over old banana trunks  
and found a number of *Clapharasma*  
in little cavities in the ground.  
Found a number of the large long  
legged crickets, & winged *Neotigridus*-  
*Cike?*, and a few blattids. Got long  
horns on bushes along road  
& large one Hazel found among  
leaves of branch which had  
been just cut down - 15 or 20 feet  
high. — Collected also along  
thicket grass, weeds & thickets  
got little Mantid on weeds - *Sphenarium*  
seems more colorful here than  
ones collected to the west. also  
great variation in size - got *Schistocerca*  
here & *Taeniopoda* and *Chromacris*.  
Got *Oedipodid* on road way.  
Good collection for Dr Taylor.

70  
28  
2

Aug 30 - rain all day - went  
down towards Portrero semi  
and got 4 *Blaptoglossus*.

Aug 31 went off early with Hazel  
and towards Portrero - Hazel  
got light greyish *Trimastix*  
& *Phyllorhina* near quarry - rocks  
light in color. I got a series  
(some for Ed) along boulder  
stream bed - rocks very dark  
& lizards likewise - Ed &  
Phil. went off to find Las  
Tortolas & got some more *Trimastix*  
that were a reddish brown color.  
Collected around large coffee  
plantation - Hazel got ♂ & ♀,  
& I got ♀ of *Phyllorhina*  
*annulicornis*! They seemed  
to be very scarce on large  
mounds in sunny spots in  
the coffee groves - never  
saw them edge of road.  
Also got some *Phyllorhina* here  
& brown (2 sp) long horns -  
got smallish brown legged  
*Cyllus* under old banana but





in somewhat similar  
cavity as *Calaphysosoma*  
of which I got several.

Got one colored ♀ *Sphenarium*,  
the first I have seen.



Sept. Night Stops

9 N. of Jacala

10 Villa Juarez

11 Montemorelos


12+13 Higuera

14 66 km W. Saltillo

15 Pass above Saltillo

16 Mamelique Pass

Sept. 8, - left Mexico City at 1:30 P.M.  
made camp in gorge by Tula River  
at Tasquillo.

Sept. 9 - Collected around camp in  
the morning for a while. Quite  
arid hills - much cactus and  
bushes. Not much grass. Found  
Hesperotettix like hopper in  
bushes with a <sup>small</sup> shiny leaf   
got a number of other hoppers of  
interest here also - got two  
species of large Katydid by  
flashlight at night - elevation  
about 5500 ft. - went  
on to Km 196 just South of  
Zimapan. Several species we  
did not find before & still  
many myriaphs about -  
→ about first instar Spinarium  
common in weeds about camp.

